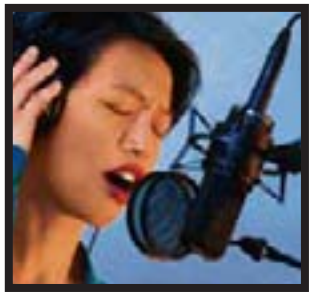
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Signal Transmission Products and Systems

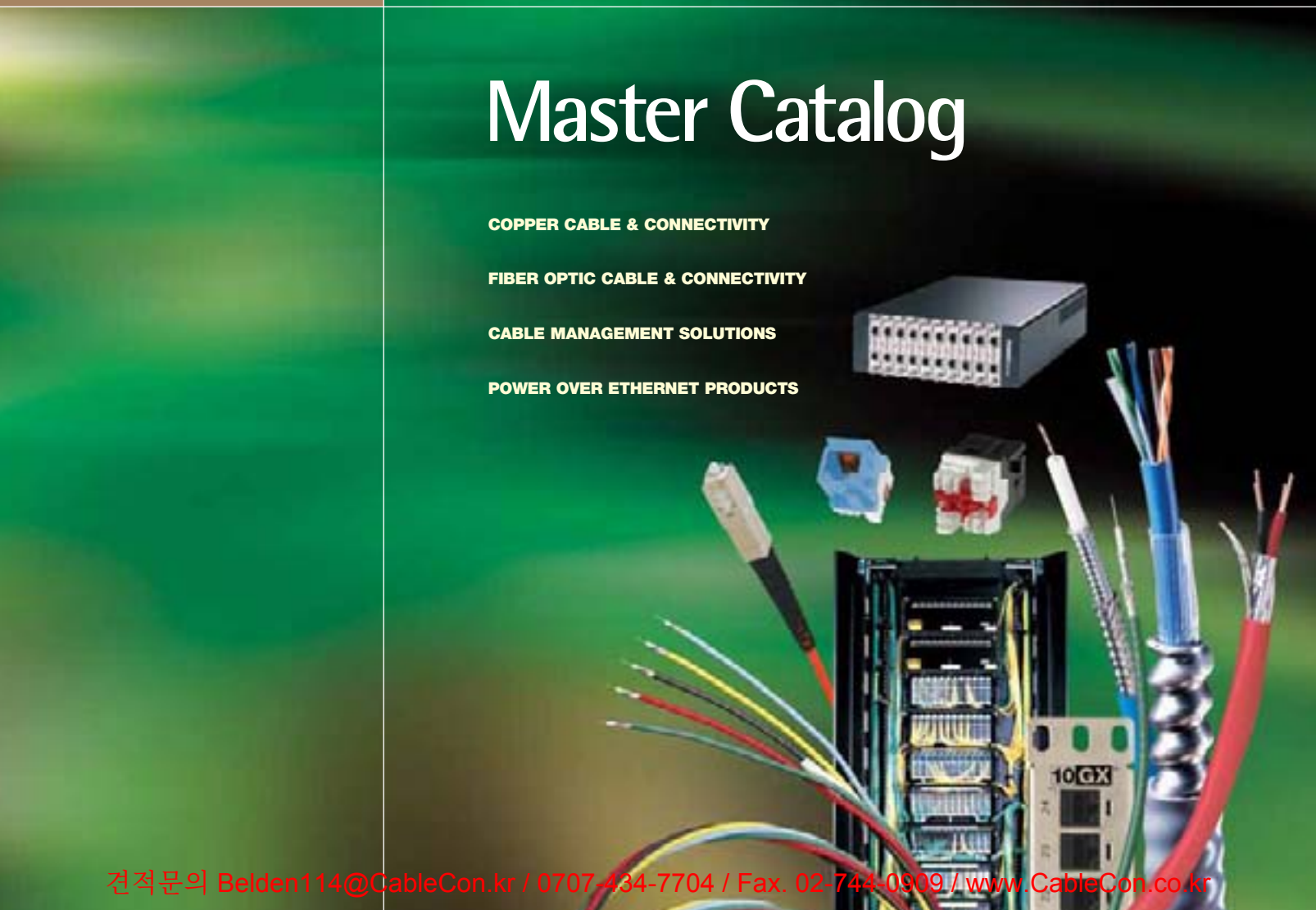
Master Catalog

COPPER CABLE & CONNECTIVITY

FIBER OPTIC CABLE & CONNECTIVITY

CABLE MANAGEMENT SOLUTIONS

POWER OVER ETHERNET PRODUCTS



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SENDING ALL THE RIGHT SIGNALS

Our New Logo and Tagline Embody Our Commitment:
We focus on being the brand you trust for any number of signal transmission solutions…the brand you can depend on for the "right" signals.

BELDEN
SENDING ALL THE RIGHT SIGNALS

Our Signal Transmission Solutions Exemplify the Reliability and Expert Care You Have Come to Expect from Belden

Belden®: The Brand You Depend On

Over and over again our customers tell us that Belden is the brand they trust for dependable signal transmission. No matter the market – broadcast, commercial networking, security, industrial or residential – the name 'Belden' has become synonymous with high quality and ensured reliability.

We have earned our reputation as an expert solutions provider precisely because our customers are now, and have always been, our #1 priority. We make it our job to consistently supply innovative, standard-setting products upon which customers can rely.

We offer the broadest selection of signal transmission products available. We provide all the data and support necessary to help you make the right decision for the intended application. And, Belden products are readily available to you, no matter where around the globe you may be.

Belden is also evolving. We are taking our success in cable to all means of signal transmission technology: copper, optical fiber and wireless. And we have expanded our product offering to include complete system solutions, including connectivity, equipment enclosures, cable raceways and racks.

Take a look at the first wave of our evolution, embodied within these pages – being mindful that even more dynamic products, systems and services are sure to come.



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Welcome to the Most Complete Resource in the Industry for Reliable Signal Transmission Products

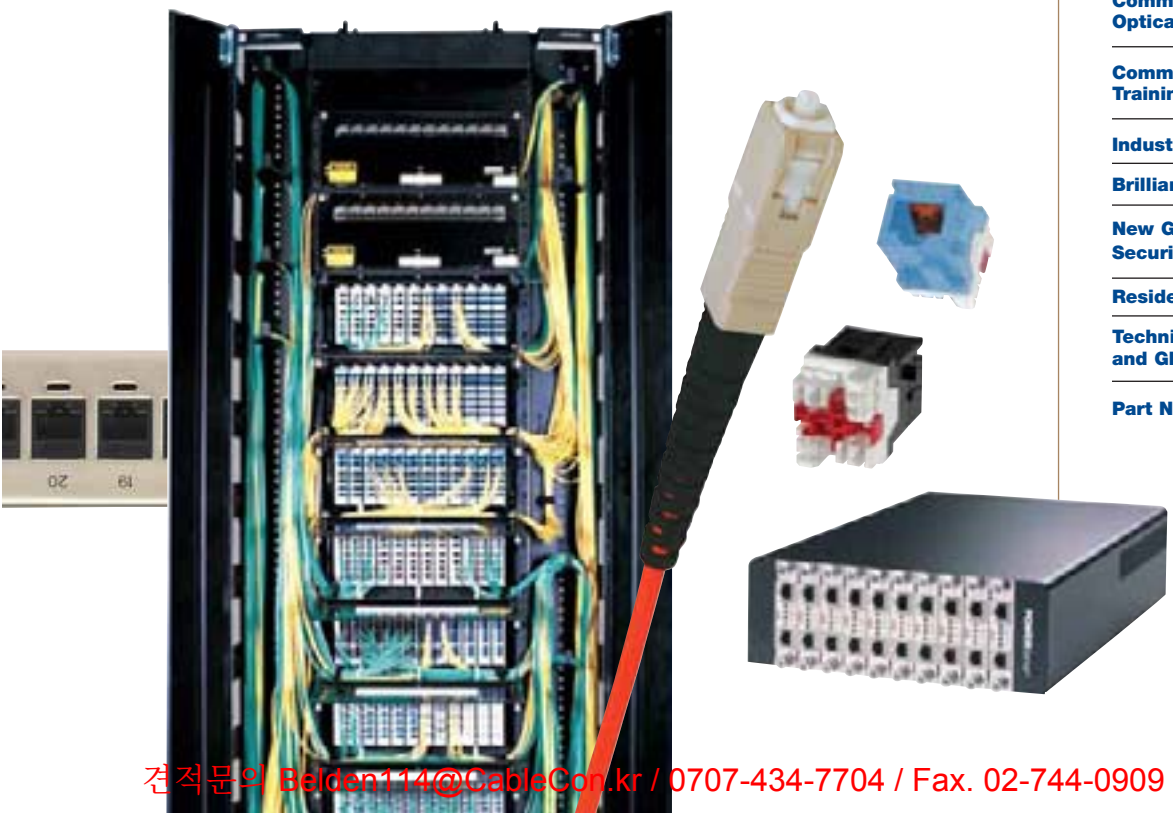
The Belden® Master Catalog is a uniquely distinctive publication. An unparalleled resource for cabling and related product solutions, this catalog represents Belden's commitment to providing you with the most reliable signal transmission products, whatever the application and wherever you are in the world.

We believe you will find our Master Catalog to be an essential tool for solving a wide range of application problems. In addition, all of the information contained in this catalog, along with easy-to-use search tools, is available at www.belden.com.

Environmental Compliance

The use of materials that are environmentally friendly is of growing concern to Belden, its customers and to the global community. As a result, virtually 100% of Belden cables now meet the requirements of both the Restriction on Hazardous Substances (RoHS) Directive and California Proposition 65. This catalog has annotated only those cable products that were non-compliant at time of printing. Other Belden products in sections 11, 12, 13, 14, 15 and 16 are in the process of becoming compliant. For updates, please see the Belden Web site or contact Customer Service.

More detailed compliance information can be found in Technical Information (Section 22, page 22.23). For definitions of the various environmental regulations involved, please consult the Glossary of Terms, beginning on page 22.24.



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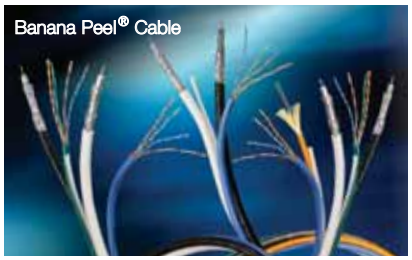
BELDEN
SENDING ALL THE RIGHT SIGNALS

We Continue to Innovate with Award-Winning Cables

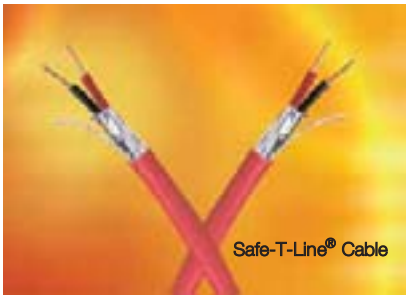
Belden's cable designs have been singled out for recognition in the trade press, at a variety of trade shows and, most importantly, with our customers. A few are represented here.

Banana Peel*: Transforming Composite Cable Installation

Chief among these offerings is an entirely new concept in composite cable design called Banana Peel. Belden® patented Banana Peel cables* are an installer's dream, offering an easy-to-install, fully integrated version of a composite cable construction where the various cables are not just bundled together but affixed to a center spline for easy pulling.



But there's more – Belden has gone one step further in installation ease by completely eliminating the overall jacket. Without this jacket, a whole step in the installation process is eliminated, plus the individual cable components are all instantly identifiable and ready for termination. Installers can now pull of a variety of cables at once, then simply peel the individual cables off the center spline and terminate them. It's that easy.

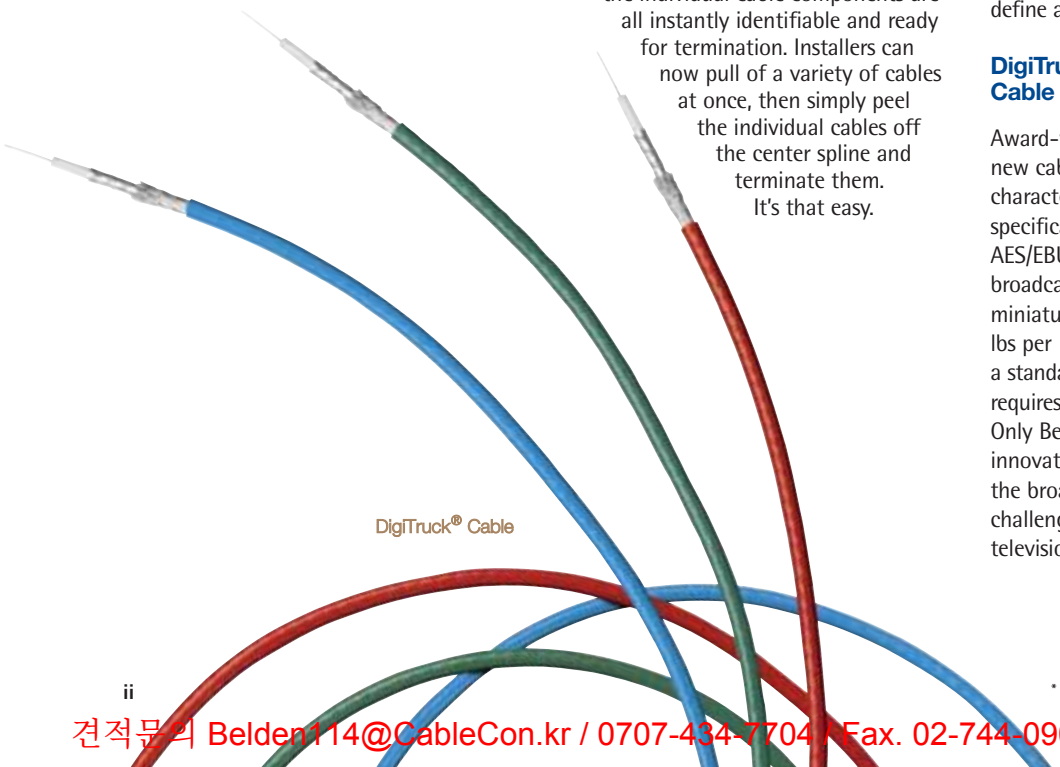


A Whole New Level of Security: Belden Safe-T-Line® Cables

Another recent award-winning cable is Belden's Safe-T-Line Circuit Integrity cable – a cable that allows the EVAC systems in high-rise office buildings to remain operational for two hours in the event of a fire or other emergency. This allows the building occupants an opportunity to hear either live or recorded voice instructions that will guide them out of the building in a timely and orderly way. Reliability of this kind takes design integrity – something that our customers define as a core Belden competency.

DigiTruck®: An Extremely Small Cable with Big Performance

Award-winning DigiTruck is a revolutionary new cable with superior return loss characteristics that has been designed specifically for analog, SDI, HD video and AES/EBU digital audio transmission in broadcast production trucks. DigiTruck is a miniature coaxial cable, weighing just 7.25 lbs per 1,000 feet, or about 60% less than a standard Mini RG 59/U coax. It also requires approximately 40% less space. Only Belden could devise such an innovative and efficient solution to meet the broadcast needs of today's weight-challenged and space-cramped mobile television trucks.



* Banana Peel is protected under U.S. Patent 7,049,523.

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Premier Structured Cabling Systems – Both Copper and Fiber – Are Now Part of the Belden® Line-Up

Our full range of Belden IBDN® copper and fiber structured cabling products *and systems* can be found in the Commercial Networking sections (Sections 15, 16 and 17), where you'll also find a full complement of training programs for Belden IBDN.

All Belden IBDN networking system components are engineered to exacting specifications and manufactured under the most stringent quality controls. The components used in our Belden IBDN Systems – including backbone cables, cross-connect hardware, cross-connect patch wires and cords, and horizontal cables – have been specifically designed to work together as an integrated system. To complete the installation, our product offering also includes a variety of outlets, connector modules, faceplates, adapters and modular cords.

Our flagship system, **Belden IBDN System 10GX®,** is revolutionary not only in its expression as a fully integrated 10 Gigabit structured cabling solution, but in the way it has been designed around a series of dynamic enabling technologies. These technologies help solve the two major performance issues that plague most other manufacturers, yet they are instrumental to 10 Gigabit transmissions: the ability to significantly reduce Alien Crosstalk and the control of key electrical characteristics during high frequency operation.

System 10GX and other Belden IBDN structured cabling systems have been widely installed around the world. Their ubiquity is testimony to the proven success of these systems.

Other top-performing structured cabling systems in the Belden IBDN mix include:

- The 1.2 Gb/s Category 5e **Belden IBDN System 1200**
- The 2.4 Gb/s Category 6 **Belden IBDN System 2400**
- The 4.8 Gb/s Beyond Cat6 **Belden IBDN System 4800LX**

On the optical fiber side of the structured cabling systems business, we offer Belden IBDN Fiber*Express*. The Fiber*Express* Solution is a complete end-to-end optical cabling system supporting both centralized and fiber-to-the-desk topologies, as well as backbone and campus cabling configurations.

For the ultimate in quick, easy and reliable optical networking, we also offer the Fiber*Express* Pre-connectorized System. These products are "plug and go" and their deployment requires no specialized tools, so you can deploy 12 fibers in the same amount of time it takes to connect a power cord to a standard electrical plug!

All Belden IBDN Systems Are Fully Certified

To be 'Certified' each Belden IBDN system must be designed and installed by a factory-trained Certified System Vendor (CSV), plus the system must be composed of all Belden IBDN components. A 25-year Product Warranty and a Lifetime Application Assurance program accompany each Belden IBDN 'Certified' System installation, including coverage for both parts and labor.

Our Customer Training Programs Are an Industry Standard

To facilitate our customers' understanding of structured cabling – and in order to keep both our customers and our CSVs current with new technologies, techniques and industry standards – we offer the Belden IBDN Training Center. With classes taught by a highly credentialed staff with over 100 years of cumulative experience in structured cabling, this Center serves the needs of more than 5,000 individuals each year.



Our structured cabling systems are comprised of top-of-the-line system components — all quality-built to our exacting specifications

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An All-New, Comprehensive Line of Cable Management Solutions

New This Year Are Belden's Enclosure and Open Frame Rack Solutions

A full complement of products – including numerous mounting, cable and patch cord management options and accessories – have been designed to meet the unique needs of data centers, as well as various networks and control systems. Whether it's the protection of sensitive equipment, or the ability to mount equipment of varied sizes and depths, Belden has the solution you need.



Enclosures and
open frame rack solutions

A Masterful PoE System Becomes Part of Our Systems Offering

Ensuring Reliable Delivery of Power Over Ethernet (PoE)

We now offer the Belden PowerSense® system, a cutting-edge, modular approach to the distribution of wireless signals. Our system products include PowerSense Midspan Hubs, any combination of discrete power modules, connectors and Y cables. With PowerSense, it's easy to scale up when devices need to be appended to the system because new modules can be added to our hubs as they are required.



We've Even Added Cable Ties and a Surface Raceway System

To help get organized and neatly route installed cable, we also offer a wide variety of cable ties in standard nylon, weather-resistant nylon, or Velcro® to suit varying load capacities.

Another addition, the Belden® Surface Raceway System, is a functional, affordable and attractive solution for wire enclosure applications. This product line includes extruded raceways with pre-applied adhesive backings, a variety of fittings and junction boxes.



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How to Use the Belden® Master Catalog

If You're Not Sure Of What You Need...

Select By Cable Type or Application
Use the Section Index below or look at the more detailed Table of Contents pages found at the beginning of *each* section to find your cable type or application.

Select By Keyword
Reference the *Table of Contents* section on the following pages for an alphabetical listing of product keywords.

Consult the Cable Finder Guide
If you know the gage size, shielding type, and/or number of conductors needed for your application, you can locate a part number and corresponding catalog page number for all matching multi-conductor and paired cable products in the *Cable Finder Guide* (Section 2).

If You Know The Belden Part Number...

Consult the Index in the Back of the Catalog
In the *Part Number Index* (Section 23), you'll find a numerical listing of Belden part numbers. This comprehensive Index lists *every* product featured in the *Belden Master Catalog*.

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Please refer to "Terms of Use of Master Catalog" on page 22.22

Visit our Web Site

Our Web site is a valuable online resource for Belden wire and cable products, services, support, solutions, and purchasing information. Point your browser to www.belden.com to find out more.

Contact One of Our Sales Representatives for Assistance

Call **1-800-BELDEN-1** in the U.S. or **1-765-983-5200** outside the U.S. You can also fax us at **1-765-983-5656** or email us at **techsupport@belden.com**.

To Place an Order

For many of the products in the catalog, you will find everything you need in this catalog to place an order. Should you need assistance, please contact your Belden sales representative. A complete list of all of our sales offices can be found on the back cover of this catalog or at www.belden.com.

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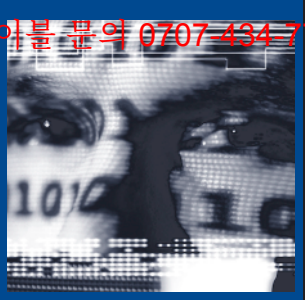
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SIS	600V 90°C	3.15
TC	600V 75°C	18.18 18.63–18.69
Portable Cordage		
HPN	300V 90°C	9.3
S	600V 60°C	9.6
SJ	300V 60°C	9.4, 9.6
SJO	300V 90°C	9.4, 9.7
SJT	300V 60°C	9.7
	300V 75°C	9.7
SJTOW	300V 105°C	9.4, 9.8
SO	300V 60°C	9.9
	600V 60°C	9.10
	600V 90°C	9.4, 9.6, 9.9
SP-1	300V 60°C	9.3
SPT-1	300V 60°C	9.3
SPT-2	300V 60°C	9.3
STOW	600V 105°C	9.5, 9.8
SV	300V 60°C	9.5, 9.8
SVT	300V 60°C	9.5, 9.8–9.9

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BELDEN
SENDING ALL THE RIGHT SIGNALS



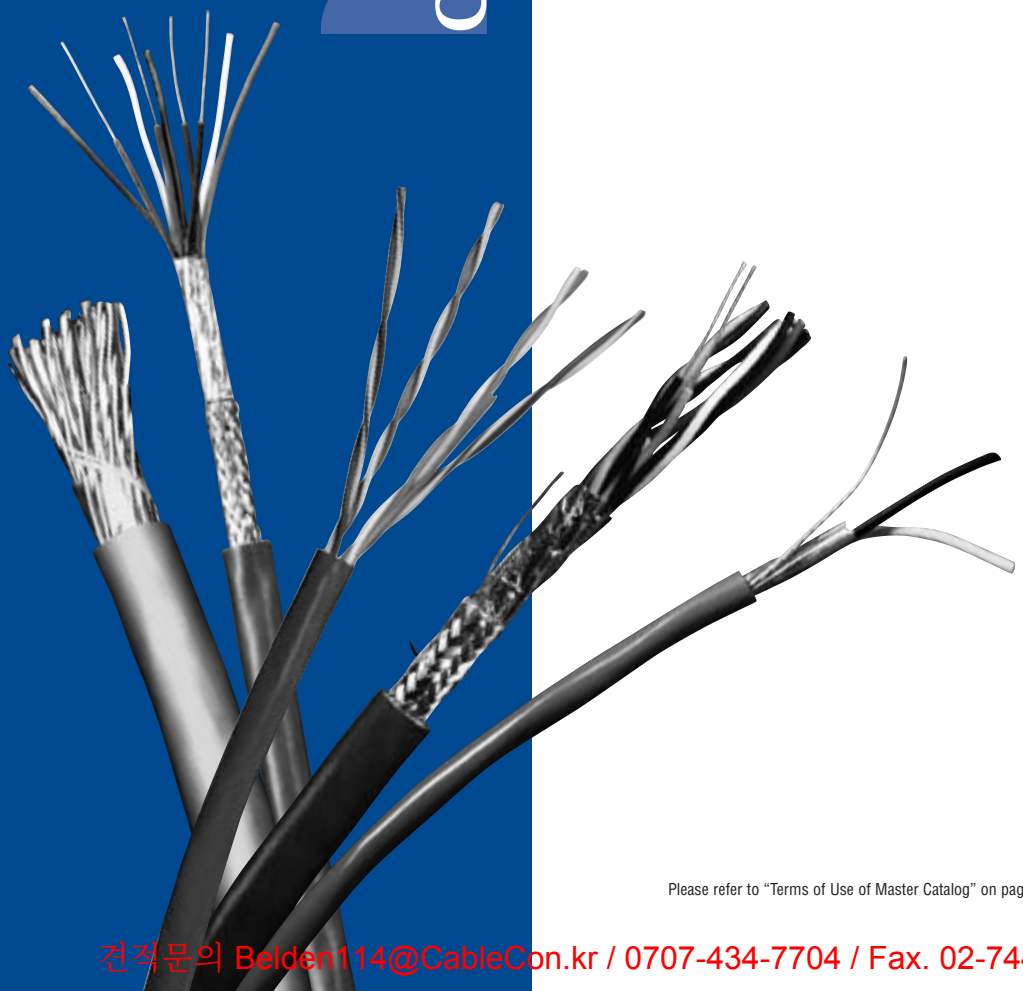
2 Cable Finder Guide

The Belden® Cable Finder Guide is a tool for the user of the Belden Master Catalog. It is designed to give quick access and page reference to current Belden product offerings by AWG size, shielding type and number of conductors.

Use the Cable Finder to locate where the specific cable you seek is detailed in the body of the catalog.

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Please refer to “Terms of Use of Master Catalog” on page 22.22

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Multi-conductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
25 AWG and smaller														
1	—	—	—	—	83303E	4.30	—	—	—	—	—	—	—	—
2	—	—	9454 8416	19.38 19.38	83317E	4.30	9180 9271	19.27 19.58 6.88	—	—	—	—	—	—
3	—	—	8791	4.14	83332E 8643	4.30 4.14	—	—	—	—	—	—	—	—
4	—	—	—	—	83347E 1804A 1172A	4.30 19.8 19.8	1211A• 8132FO	4.21 5.14	9804 8132	5.26 5.27	1215A■ 7891A■	15.80 19.28	—	—
6	—	—	—	—	—	—	1212A• 8133FO	4.21 5.14	9791 9805 8133 1538A	4.16 5.26 5.27 15.81	—	—	—	—
7	—	—	—	—	—	—	—	—	1540A	15.81	—	—	—	—
8	—	—	—	—	—	—	1213A• 8134FO	4.21 5.14	9806 8134	5.26 5.27	7890A■	19.28	7884A◗	19.17
10	—	—	—	—	—	—	8135FO	5.14	9807 8135	5.26 5.27	—	—	—	—
14	—	—	—	—	—	—	—	—	9808	5.26	9868■	4.10	—	—
16	—	—	—	—	—	—	1214A• 8138FO	4.21 5.14	8138	5.27	7880A■	19.28	7885A◗	19.17
18	—	—	—	—	—	—	—	—	9809	5.26	—	—	—	—
24	—	—	—	—	—	—	—	—	9812	5.26	7892A■	19.28	—	—
24 AWG														
1	—	—	—	—	83304E	4.30	—	—	—	—	—	—	—	—
2	8782	19.32	9397 1812A 1813A	19.5 19.5 19.6	83318E 8413 9399 1800F	4.30 19.5 19.5 19.5 19.27	9452 9501 8641 82641 88641 1508A 1800B 1801B 1883A	19.6 5.11 19.9 5.16 19.9 5.13 19.9 5.13 19.9 5.16 19.27 21.24 19.27 5.16 19.9	9841 82841 89841 7200A 7205A 7206A	5.28 5.28 5.52 5.28 5.52 18.39 18.39 18.39	—	—	—	—
3	—	—	9398	19.7	83333E 8406	4.30 19.7	9533	4.11	9608 9925 83503	4.17 4.18 4.25	—	—	—	—
4	9562▼ 1588A▼ 1588R▼ 1590A▼ 1227A1▼ 1243A2▼ 7932A 24501922	5.4 15.56 15.56 15.57 15.63 15.63 18.6 18.7 18.8 15.64	—	—	83348E 1192A	4.30 19.8	9534 9502 82502 88102 89842 1419A 7933A	4.11 5.11 5.13 5.49 5.50 5.28 5.52 5.15 18.9	9609 9927 83504 9842 82842 8332 9829 8102 7201A	4.17 4.18 4.25 5.28 5.28 5.52 5.29 5.30 5.31 18.39	9729 89729 82729 8162■ 1509C■ 1802B◆	5.35 19.29 5.36 5.53 19.30 5.36 5.53 19.30 5.44 19.19 19.27	1902A	19.20
5	—	—	—	—	—	—	9535	4.11	9610 9929	4.17 4.18	—	—	—	—

▼Solid conductors
◆Siamese version
* Armored
• Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad

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Multi-conductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
6	24501934 24571097	15.64 15.64	—	—	—	—	9536 9503 82503 89503 9680 1420A 88103	4.11 5.11 5.13 5.49 5.13 5.49 5.15 5.15 5.50	9611 9931 83506 9843 9830 8103 3120A 7202A 8333	4.17 4.18 4.25 5.28 5.30 5.31 18.27 18.39 5.29	9730 89730 8163■ 9990	5.35 19.29 5.36 5.53 19.30 5.44 5.37	—	—
7	—	—	—	—	—	—	9537	4.11	9612 9932	4.17 4.18	—	—	—	—
8	1229A1▼ 1245A2▼ 1304A 1305A 1500A▼ 1500R▼ 1501A▼ 1583A▼ 1583R▼ 1583B▼ 1585A▼ 1585B▼ 1585LC▼ 1592A 1594A▼ 1700A▼ 1700R▼ 1701A▼ 1701LC▼ 1752A 1875GB 7883A 7918A 7923A 7924A 7928A 7930A 7934A 7987P 7987R 7988P 7988R 7997A 11700A 11700A2 121700A* 11872A 245019XX 24566XXX 24567XXX 24568XXX 24570XXX 245711XX	15.63 15.63 19.76 19.76 15.54 15.54 21.10 15.54 15.56 15.56 21.11 15.56 15.57 21.11 15.57 15.57 15.57 15.56 15.50 15.50 21.10 15.50 21.10 15.50 15.73 15.72 15.72 18.10 18.8 18.9 18.8 18.10 18.8 19.74 19.74 15.71 19.75 15.71 19.75 15.56 18.8 18.8 18.6 18.10 15.64 15.65 15.49 15.49 15.49 15.51 15.62 15.64 15.65	—	—	—	—	9538 9504 82504 89504 9681 88104 1421A 1533R▼ 1533P▼ 1624R▼ 1624P▼ 1633A▼ 7919A 7921A 7929A 1300A 1300SB	4.11 5.11 5.13 5.49 5.13 5.49 5.15 5.50 5.15 15.67 15.67 15.68 15.68 15.69 18.10 18.9 18.9 19.76 15.67 19.76	9933 9844 9831 9613 8334 8104 7921A 7203A 89842	4.18 5.28 5.30 4.17 5.29 5.31 18.9 18.39 5.28 5.52	9728 89728 8164■ 1408R■ 1510C■ 1803F■	5.35 19.29 5.36 5.53 19.30 5.44 19.18 19.19 19.28	1904A	19.20

▼Solid conductors
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† Triad
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Multi-conductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
9	—	—	—	—	—	—	9539	4.11	9614 9934 83509	4.17 4.18 4.25	—	—	—	—
10	—	—	—	—	—	—	9540 9505 82505 89505 1422A 88105	4.11 5.11 5.13 5.49 5.13 5.49 5.15 5.50	9615 9935 8335 9832 8105	4.17 4.18 5.29 5.30 5.31	8165■ 89705	5.44 5.53 19.30	—	—
12	9566▼ 24501829	5.4 15.65	—	—	—	—	9506 82506 9682 1423A 88106	5.12 5.13 5.15 5.15 5.50	83512 8336 9839 8106	4.25 5.29 5.30 5.31	9731 89731 9991 8166■ 1409R■ 1511C■	5.35 19.29 5.36 5.53 19.30 5.37 5.44 19.18 19.19	1906A	19.20
14	—	—	—	—	—	—	9507	5.12	8337 9833 8107	5.29 5.30 5.31	8167■ 89757	5.44 5.53 19.30	—	—
15	—	—	—	—	—	—	9541 88107	4.11 5.50	9616 9936 83515	4.17 4.18 4.25	—	—	—	—
16	1702A◆▼ 1703A◆▼	15.50 15.50	—	—	—	—	9508 1668A▼	5.12 15.69	8108	5.31	8168■ 1410R■ 1512C■ 1805F■	5.45 19.18 19.19 19.28	1908A	19.20
18	—	—	—	—	—	—	9509 82509 9683 88109	5.12 5.13 5.49 5.15 5.50	9834	5.30	9732 89732 9992	5.35 19.29 5.36 5.53 19.30 5.37	—	—
20	9570▼	5.4	—	—	—	—	9542 9510	4.11 5.12	8340 9835 8110	5.29 5.30 5.31	8170■	5.45	—	—
22	—	—	—	—	—	—	—	—	—	—	9733	5.35 19.29	—	—
24	24501837	15.65	—	—	—	—	—	—	9836	5.30	9734 9993 89734 1411R■ 1513C■ 1806F■	5.35 19.29 5.37 5.53 19.30 19.18 19.19 19.28	1912A	19.20

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
23 AWG														
8	1872A▼ 1874A▼ 7813LC 7851A▼ 7851NH 7852A▼ 7881A▼ 7882A▼ 7927A 7931A 7989P 7989R 11872A▼ 121872A▼ 24586XXX 24588XXX 245873XX	15.48 15.48 15.53 15.46 15.46 15.46 15.52 21.9 15.52 21.9 18.11 18.11 15.70 19.75 15.70 19.75 18.11 18.11 15.47 15.47 15.47	—	—	—	—	—	—	—	—	—	—	—	—
22 AWG														
1	—	—		—	9965 83305E	4.15 4.30	—	—	—	—	—	—	—	—
2	8795▼ 8442 88442 82442 9712 9151 8740▼ 9407	4.3 4.3 19.35 4.4 4.23 5.6 5.48 4.4 4.23 5.6 5.48 19.32 19.33 5.4 18.42	8737	5.24 19.11	9966 83319E 8422 8437▼ 8441	4.15 4.30 19.6 5.23 5.23	83394 8450▼ 9414 9462 8761 9461 8451 9451 1266A 1503A 88761 87761 82761 9182• 89182• 3077F 3078F 3079E 9322 9451P 9451SB	4.29 5.18 19.10 5.18 5.18 5.18 19.11 5.18 19.11 5.19 19.10 5.19 19.10 5.19 19.10 5.19 19.10 5.20 5.51 19.11 5.20 5.51 19.11 5.20 5.51 19.11 6.88 6.88 18.21 18.21 18.21 18.42 5.20 19.10 5.19 19.10	83552 3079A 3105A 1696A	4.25 18.21 18.28 19.27	—	—	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG *(continued)*														
3	8794▼ 8443 9491†	4.3 4.3 18.43	—	—	8735 9967 83334E	4.14 4.15 4.30	9770 8771 83395 9363†	4.12 4.12 4.29 18.43	9939 83553 3106A	4.19 4.25 18.28	—	—	—	—
4	9794▼ 8444 88444 82444 8741▼ 9744 88741 82741 1242A	4.3 4.3 4.4 4.23 4.4 4.23 5.4 5.5 5.6 5.48 5.6 5.48 4.3	—	—	9968 83349E	4.15 4.30	8729 83396 9302▼ 9184▼ 3000A 9512 9451DP	4.12 4.29 5.17 5.17 18.42 18.42 5.19 19.13	9940 83554 8302 9855▼ 1268A▼ 89855▼ 1269A▼ 9696▼ 89696▼ 3107A	4.19 4.25 5.32 5.33 5.33 5.33 5.52 5.33 5.52 5.33 5.33 5.52 18.28	9406 8723 82723 8723SB 88723 87723	5.38 5.38 19.12 21.24 5.38 5.54 19.12 5.38 19.12 5.38 5.54 19.12 5.38 5.54 19.12	—	—
4 *(cont'd)*											8728■ 9688■▼ 82688■▼ 1634A■▼ 3087A 9328 3001A■ 1814R■ 1502P 1502R 9451D◆ 1504A◆	5.46 15.79 15.79 15.79 18.25 18.43 18.43 19.21 19.39 19.39 5.19 5.20 19.13		
5	8445	4.3	—	—	—	—	—	—	9941	4.19	—	—	—	—
6	9576▼ 8742▼ 9745 82742	4.32 5.4 5.5 5.6 5.48	—	—	—	—	3002A† 9513	18.43 18.42	9942 83556 8303 3108A	4.19 4.25 5.32 18.28	3003A†■ 8767▼ 8777 82777 88777 87777 8777SB 9329	18.43 5.37 5.40 19.23 5.41 5.54 19.24 5.41 5.54 19.24 5.41 5.54 19.24 5.40 19.12 18.43		
7	9430	4.3	—	—	—	—	—	—	9943	4.19				

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG *(continued)*														
8	9421 8757▼ 9746 88757 82757 7922A	4.3 5.4 5.5 5.6 5.48 5.6 5.48 18.9	—	—	—	—	9305▼ 3004A 9514	5.17 18.42 18.42	9944 8304 3109A	4.19 5.32 18.28	9330 3005A■ 1815R■ 1217B 9891■	18.43 18.43 19.21 19.22 15.76	—	—
9	9423	4.3	—	—	—	—	—	—	9945 83559	4.19 4.25	—	—	—	—
10	8456	4.3	—	—	—	—	—	—	9946 8305	4.19 5.32	—	—	—	—
12	8457 8743▼ 8747 82743	4.4 5.4 5.5 5.6	—	—	—	—	9306▼ 9516	5.17 18.42	83562 8306	4.25 5.32	8768▼ 8778 82778 88778 87778 9331 1816R■ 1218B	5.37 5.40 19.23 5.41 5.54 19.24 5.41 5.54 19.24 5.41 5.54 19.24 18.43 19.21 19.22	—	—
14	—	—	—	—	—	—	—	—	8307	5.32	—	—	—	—
15	8458	4.4	—	—	—	—	—	—	9947	4.19	—	—	—	—
16	9160▼	5.4	—	—	—	—	3006A	18.42	8308	5.32	3007A■ 1817R■	18.43 19.21	—	—
18	8744▼ 8748	5.4 5.5	—	—	—	—	9309▼ 9520	5.17 18.42	—	—	8764▼ 8774 9332 1219B	5.37 5.40 19.23 18.43 19.22	—	—
19	—	—	—	—	—	—	—	—	83569	4.25	—	—	—	—
20	9431	4.4	—	—	—	—	—	—	8310	5.32	—	—	—	—
22	—	—	—	—	—	—	9521	18.42	—	—	8765▼ 8775 9333	5.37 5.40 19.23 18.43	—	—
24	9747	5.5	—	—	—	—	3008A	18.42	—	—	9768 3009A■ 1818R■ 1220B	5.40 19.23 18.43 19.21 19.22	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG														
1	—	—	—	—	9961 83306E	4.15 4.31	—	—	—	—	—	—	—	—
2	85220 7400A 83930 83932▼ 83934▼ 83915▼ 83900▼ 83905▼ 83910▼ 8649 8205 9408	4.28 18.34 18.55 18.55 18.55 18.55 18.55 18.55 18.55 19.32 5.7 19.35 18.44	8759	5.24 19.13	9962 83320E 8412 8402 9272	4.15 4.31 19.6 19.6 6.87	9802▼ 83393 85230 8762 9464 9154 9320 1033A 3111A 3112A 3113A 83955 83950 83952 83954	4.22 4.29 4.29 5.20 19.13 5.20 19.13 5.21 19.13 18.44 18.43 18.54 18.54 18.54 18.55 18.55 18.55 18.55	83602 9207● 9463 9463DB 89463 129463* 139463* 189463* 9463F	4.26 6.88 6.87 18.14 18.14 18.14 18.14 18.14 18.14	22671■ 23543*■ 26530*■	18.78 18.80 18.80	—	—
3	7101A 7401A 9492†	18.32 18.34 18.45	—	—	9963 83335E 7401AS 8423 8403	4.15 4.31 18.34 19.7 19.7	8772 9803▼ 85240 9364† 1526A†	4.12 4.22 4.29 18.45 18.45	—	—	22660†■ 23545*†■ 26539*†■	18.78 18.80 18.80	—	—
4	9444 7102A 7402A 8484	4.5 18.32 18.34 4.8	—	—	9964 83350E 7402AS 8424 8404	4.15 4.31 18.34 19.8 19.8	3016A	18.44	83604	4.26	9402 1075A■ 3115A■ 22638■ 23534*■ 26531*■	5.41 18.44 18.54 18.78 18.80 18.80	—	—
5	9445 7403A	4.5 18.34	—	—	7403AS 8405 8425	18.34 19.40 19.40	—	—	—	—	—	—	—	—
6	9750	5.7	—	—	9260 8426	4.14 19.40	3017A†	18.45	83606	4.26	3018A†■ 22662†■ 23546*†■ 26540*†■ 9883 9873	18.45 18.78 18.80 18.80 5.41 5.42	—	—
7	9439 7404A	4.5 18.34	—	—	7404AS 8427	18.34 19.40	—	—	—	—	—	—	—	—
8	—	—	—	—	8418 9892	19.40 15.76	85164 1056A	5.11 18.44	—	—	8725 9891■ 9901●■ 89901●■ 89892■ 1076A■ 1006A■ 1012A■ 22639■ 23514*■ 26532*■	5.47 15.76 15.75 15.75 15.76 18.44 18.54 18.54 18.78 18.80 18.80	—	—
9	9455 7105A 7405A	4.5 18.32 18.34	—	—	—	—	—	—	83609	4.26	—	—	—	—
10	—	—	—	—	—	—	9890▼	4.22	—	—	9902●■	15.75		

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG *(continued)*														
12	9457 7106A 7406A 9751	4.5 18.32 18.34 5.7	—	—	9261 7106AS	4.14 18.32	3020A†	18.45	83612	4.26	1083A†■ 22663†■ 23547*†■ 26541*†■ 9886 9874 22640■ 23513*■ 26533*■	18.45 18.78 18.80 18.80 5.41 5.42 18.78 18.80 18.80	—	—
15	9458	4.5	—	—	—	—	9894▼	4.22	—	—	—	—	—	—
16	—	—	—	—	—	—	85168 1057A	5.11 18.44	—	—	1077A■ 1013A■ 22641■ 23503*■ 26534*■	18.44 18.54 18.78 18.80 18.80	—	—
18	7107A 7407A 9752	18.32 18.34 5.7	—	—	—	—	—	—	—	—	9875	5.42	—	—
22	—	—	—	—	—	—	—	—	—	—	9876	5.42	—	—
24	—	—	—	—	—	—	3021A† 1058A	18.45 18.44	—	—	1084A†■ 22672†■ 23548*†■ 26542*†■ 9877 1078A■ 1014A■ 22676■ 23521*■ 26535*■	18.45 18.78 18.80 18.80 5.42 18.44 18.54 18.78 18.80 18.80	—	—
19 AWG														
2	8486	5.7	—	—	—	—	—	—	—	—	—	—	—	—
18 AWG														
1	—	—	—	—	83307E	4.31	—	—	—	—	—	—	—	—
2	9571▼ 7409A 27916A 27325A 9708 8460 1863A 8461 29030* 9740 89740 87740 82740 9409 9486	4.32 18.35 18.64 18.64 19.32 19.33 19.33 5.7 19.35 18.88 5.8 5.9 5.48 5.9 5.48 5.9 5.48 18.46 18.57	8790	5.24 19.14	83321E 8428 9250 8208	4.31 19.6 6.87 5.23	27325AS 9574▼ 8760 9460 88760 87760 82760 3076F 9318 1032A 9341 1120A 3088A 3088AE 3088CE	18.64 4.32 5.21 19.14 5.21 19.14 5.21 5.51 19.14 5.21 5.51 19.15 5.21 5.51 19.14 18.19 18.46 18.47 18.57 18.57 18.57 18.58 18.58	83652 3072F 3073F 3074F	4.26 18.18 18.18 18.18	22645■ 23533*■ 26514*■ 22417■ 24511*■ 25506*■	18.78 18.80 18.80 18.82 18.83 18.83	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
3	7110A 7410A 9493† 27334A 29031*	18.32 18.35 18.48 18.64 18.88	8791	4.14	83336E	4.31	27334AS 8770 88770 9365† 1036A† 1121A† 3089A†	18.63 4.13 4.13 4.24 18.48 18.48 18.58 18.58	83653	4.26	22677†■ 23505*†■ 26522*†■ 22442†■ 24516*†■ 25500*†■ 3088AE 3088CE	18.78 18.80 18.80 18.82 18.83 18.83 18.58 18.58	—	—
4	8489 88489 82489 7411A 27326A 29032* 9156	4.5 4.6 4.23 4.6 4.23 18.35 18.64 18.88 5.8	—	—	83351E 7111AS 7411AS	4.31 18.32 18.35	27326AS 9418 89418 82418 9578▼ 9552 3025A 1063A	18.64 4.13 4.13 4.24 4.13 4.24 4.32 18.46 18.47 18.57	83654	4.26	9368 1474A■ 1048A■ 22633■ 23511*■ 26515*■ 22405■ 24512*■ 25514*■	18.46 18.47 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—
5	8465 7412A 27335A 29033*	4.5 18.35 18.64 18.88	—	—	—	—	—	—	—	—	—	—	—	—
6	27600A 29034* 8690	18.64 18.88 5.8	—	—	—	—	3027A† 9553 1529A	18.47 18.46 18.47	83656	4.26	3028A†■ 3064A†■ 22678†■ 23516*†■ 26523*†■ 22443†■ 24517*†■ 25522*†■ 9773 9369	18.48 18.58 18.78 18.80 18.80 18.82 18.83 18.83 5.42 18.46	—	—
7	8467 7113A 7413A 27327A 29035*	4.5 18.32 18.35 18.64 18.88	—	—	7413AS	18.35	—	—	—	—	—	—	—	—
8	27601A 29036* 9157	18.64 18.88 5.8	—	—	—	—	9554 1466A 1064A	18.46 18.47 18.57	—	—	3029A 9388 1475A■ 1049A■ 22648■ 23530*■ 26516*■ 22404■ 24513*■ 25503*■	18.46 18.46 18.47 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—
9	8469 7414A 27336A	4.5 18.35 18.64	—	—	—	—	—	—	83659	4.26	—	—	—	—
10	27328A 29038* 9159	18.64 18.88 5.8	—	—	—	—	—	—	—	—	—	—	—	—
11	27602A	18.64	—	—	—	—	—	—	—	—	—	—	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
12	8466 7115A 7415A 27329A 29040* 8691	4.5 18.32 18.35 18.64 18.88 5.8	—	—	7115AS 7415AS	18.32 18.35	3030A† 9556	18.48 18.46	83662	4.26	3031A†■ 1093A†■ 22679†■ 23515*†■ 26524*†■ 22444†■ 24518*†■ 25520*†■ 9774 9389 22634■ 23528*■ 26517*■	18.48 18.58 18.78 18.80 18.80 18.82 18.83 18.83 5.42 18.46 18.78 18.80 18.80	—	—
13	27603A	18.64	—	—	—	—	—	—	—	—	—	—	—	—
14	27604A	18.64	—	—	—	—	—	—	—	—	—	—	—	—
15	8468 27605A 29043*	4.5 18.64 18.88	—	—	—	—	—	—	—	—	—	—	—	—
16	27606A 9161	18.64 5.8	—	—	—	—	1467A 1065A	18.47 18.57	—	—	1476A■ 1050A■ 22635■ 23531*■ 26518*■ 22418■ 24514*■ 25505*■	18.47 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—
17	27607A	18.64	—	—	—	—	—	—	—	—	—	—	—	—
18	7116A 7416A 27608A 8692	18.32 18.35 18.64 5.8	—	—	7416AS	18.35	9559	18.46	—	—	23508*†■ 26525*†■ 9775 9390	18.80 18.80 5.42 18.46	—	—
19	8619 27609A	4.6 18.64	—	—	—	—	—	—	—	—	—	—	—	—
20	27610A 29048*	18.64 18.88	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	9563	18.46	—	—	9391	18.46		
24	9741	5.8	—	—	—	—	3032A† 1468A 1066A	18.48 18.47 18.57	—	—	3033A†■ 1094A†■ 22680†■ 23523*†■ 26526*†■ 22445†■ 24519*†■ 25523*†■ 9776 1477A■ 1051A■ 22636■ 23524*■ 26519*■ 22421■ 24515*■ 25501*■	18.48 18.58 18.78 18.80 18.80 18.82 18.83 18.83 5.42 18.57 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG														
1	—	—	—	—	9951 83308E	4.15 4.31	—	—	—	—	—	—	—	—
2	8677 85221 85102 9572▼ 7421A 27917A 27337A 9716 8470 9497 1862A 8471 29017* 9410 1035A 9487 1307A	4.8 4.28 4.28 4.32 18.36 18.65 18.65 19.32 21.23 19.33 19.33 19.33 5.9 19.35 18.88 18.49 18.49 18.59 19.36 21.20	8780	5.24 19.15	9952 83322E 8408	4.15 4.31 19.6	85231 9575▼ 27337AS 8719 9316 1030A 1101A 1000A 1018A 1023A 1114A▼ 1115A▼ 1116A▼ 1117A▼ 83951 83953 9342 1118A 3090A 3090AE 3090CE	4.29 4.32 18.65 5.22 19.15 18.49 18.49 18.54 18.54 18.54 18.54 18.55 18.55 18.55 18.55 18.55 18.55 18.59 18.59 18.59 18.60 18.60	83702 9860●▼	4.27 6.88	22646■ 23501*■ 26500*■ 22416■ 24500*■ 25504*■	18.79 18.81 18.81 18.82 18.83 18.83	—	—
3	9498 85103 7122A 7422A 9494† 1034A† 27331A 29004*	4.6 4.28 18.33 18.36 18.50 18.49 18.65 18.88	—	—	9953 83337E	4.15 4.31	8618 85241 9366† 1031A† 1119A† 3091A† 27331AS	4.13 4.29 18.50 18.50 18.60 18.60 18.65	83703	4.27	22603†■ 23507*†■ 26502*†■ 22413†■ 24501*†■ 25502*†■	18.79 18.81 18.81 18.82 18.83 18.83	—	—
4	8620 7423A 27338A 29018* 3082K 3082KP 1308A	4.6 18.36 18.65 18.88 18.24 18.24 19.36 21.20	—	—	9954 83352E 7123AS 7423AS 8407	4.15 4.31 18.33 18.36 19.8	9579▼ 3043A 1069A	4.32 18.49 18.59	83704 29500	4.27 18.30	1492A■ 1055A■ 22628■ 23527*■ 26501*■ 22409■ 24505*■ 25510*■	18.49 18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—
5	9620 9420 85105 7424A 27339A 29019*	4.6 4.9 9.10 4.28 18.36 18.65 18.88	—	—	—	—	—	—	—	—	—	—	—	—
6	27615A 29005*	18.65 18.88	—	—	—	—	3044A† 1528A 1527A	18.50 18.49 18.59	83706	4.27	3045A†■ 22687†■ 23522*†■ 26509*†■ 22448†■ 24507*†■ 25507*†■ 1037A■	18.50 18.79 18.81 18.81 18.82 18.83 18.83 18.59	—	—
7	8621 9422 85107 7125A 7425A 27323A 29020*	4.6 4.9 9.10 4.28 18.33 18.36 18.65 18.88	—	—	—	—	—	—	—	—	—	—	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
8	9721 27616A 29021*	4.6 18.65 18.88	—	—	—	—	1484A 1070A	18.49 18.59	—	—	1493A■ 1039A■ 22629■ 23509*■ 26503*■ 22410■ 24502*■ 25511*■	18.49 18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—
9	9621 9424 85109 7126A 7426A 27340A	4.6 4.9 9.10 4.28 18.33 18.36 18.65	—	—	—	—	—	—	83709	4.27	—	—	—	—
10	27617A 29022*	18.65 18.88	—	—	—	—	—	—	—	—	—	—	—	—
11	27618A	18.65	—	—	—	—	—	—	—	—	—	—	—	—
12	8622 9425 7127A 7427A 27341A 29006*	4.6 4.9 9.10 18.33 18.36 18.65 18.88	—	—	7427AS	18.36	3046A†	18.50	83712	4.27	3047A†■ 1097A†■ 22675†■ 23520*†■ 26510*†■ 22414†■ 24508*†■ 25509*†■ 1040A■ 22630■ 23500*■ 26504*■ 22446■ 24506*■ 25512*■	18.50 18.60 18.79 18.81 18.81 18.82 18.83 18.83 18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—
13	27619A	18.65	—	—	—	—	—	—	—	—	—	—	—	—
14	27620A	18.65	—	—	—	—	—	—	—	—	—	—	—	—
15	8623 27621A 29023*	4.6 18.65 18.88	—	—	—	—	—	—	83715	4.27	—	—	—	—
16	9427 27330A	4.9 9.10 18.65	—	—	—	—	1485A 1071A	18.49 18.59	—	—	1494A■ 1041A■ 22631■ 23510*■ 26505*■ 22411■ 24503*■ 25513*■	18.49 18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—
17	27622A	18.65	—	—	—	—	—	—	—	—	—	—	—	—
18	7128A 7428A 27623A	18.33 18.36 18.65	—	—	7428AS	18.36	—	—	—	—	22688†■ 23529*†■ 26511*†■	18.79 18.81 18.81	—	—
19	8624	4.6	—	—	—	—	—	—	83719	4.27	—	—	—	—
20	9429 27625A 29007*	4.9 9.10 18.65 18.88	—	—	—	—	—	—	—	—	—	—	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
24	—	—	—	—	—	—	3048A†	18.50
							1486A	18.49
							1072A	18.59
									—	—	3049A†■	18.50
											1098A†■	18.60
											22689†■	18.79
											23526*†■	18.81
											26512*†■	18.81
											22415†■	18.82
											24509*†■	18.83
											25508*†■	18.83
											1495A■	18.49
											1042A■	18.59
											22632■	18.79
											23525*■	18.81
											26506*■	18.81
											22412■	18.82
											24504*■	18.83
											25518*■	18.83
													—	—
14 AWG														
2	8675	4.8	—	—	—	—	9581▼	4.33	83752	4.34	—	—	—	—
	9580▼	4.33					8720	5.22						
	7434A	18.37						19.15						
	27080A	18.65					9314	18.51						
	27636A	18.66					9343	18.61						
	9717	19.32					3080A	18.61						
		21.23												
	1861A	19.34												
	8473	5.9												
		19.35												
	27243*	18.71												
	28243*	18.71												
	27840*	18.74												
	28840*	18.74												
	22100	18.85												
	C5500*	18.89												
	9411	18.51												
	9488	18.61												
	1309A	19.36												
		21.20												
3	7435A	18.37	—	—	—	—	9367†	18.51	83753	4.34	—	—	—	—
	9495†	18.51					3081A†	18.61						
	27081A	18.66					27081AS	18.66						
	27244*	18.71												
	28244*	18.71												
	27841*	18.74												
	28841*	18.74												
	22101	18.85												
	C5501*	18.89												
	C5701*	18.92												
4	8627	4.7	—	—	7136AS	18.33	27082AS	18.66	83754	4.34	—	—	—	—
	7136A	18.33			7436AS	18.37			29501	18.30				
	7436A	18.37												
	27082A	18.66												
	1810A	19.37												
	27245*	18.71												
	28245*	18.71												
	27842*	18.74												
	28842*	18.74												
	22102	18.85												
	C5502*	18.89												
	C5702*	18.92												
	1310A	19.36												
		21.20												

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG *(continued)*														
5	9623 27083A 27246* 28246* 27843* 28843* 22103 C5503*	4.7 18.66 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
6	27084A 27247* 28247* 27844* 28844* 22104 C5504*	18.66 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	83756	4.34	—	—	—	—
7	8628 7438A 27085A 27248* 28248* 27845* 28845* 22105 C5505*	4.7 18.37 18.66 18.71 18.71 18.74 18.74 18.85 18.89	—	—	7438AS	18.36	—	—	—	—	—	—	—	—
8	27086A 1811A 27269* 28269* 27846* 28846* 22106 C5506*	18.66 19.37 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
9	7439A 27087A 27535* 28535* 22107	18.37 18.66 18.71 18.71 18.85	—	—	—	—	—	—	—	—	—	—	—	—
10	27088A 27249* 28249* 27847* 28847* 22108 C5508*	18.66 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
11	27089A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
12	8629 7440A 27090A 27250* 28250* 27848* 28848* 22110 C5510*	4.7 18.37 18.66 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
13	27091A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
14	27092A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
15	27093A 27251* 28251* 27849* 28849* C5513*	18.66 18.71 18.71 18.74 18.74 18.89	—	—	—	—	—	—	—	—	—	—	—	—

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† Triad
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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG *(continued)*														
16	27094A 22114	18.66 18.85	—	—	—	—	—	—	—	—	—	—	—	—
17	27095A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
18	27096A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
19	27097A 27969* 28969*	18.66 18.71 18.71	—	—	—	—	—	—	—	—	—	—	—	—
20	27098A 27252* 28252* 27850* 28850* 22118 C5518*	18.66 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
21	27099A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
22	27100A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
23	27101A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
24	27102A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
12 AWG														
2	8673 9582▼ 27109A 27641A 9718 1860A 8477 27254* 28254* 27853* 28853* 22120 C5530* C5730* 9412 9489 1311A	4.8 4.33 18.67 18.67 19.32 21.23 19.34 5.9 19.35 18.71 18.71 18.74 18.74 18.85 18.89 18.92 18.52 18.62 19.36 21.20	—	—	—	—	9583▼ 8718 9312 9344 3103A	4.33 5.22 19.15 18.52 18.62 18.62	83802	4.34	—	—	—	—
3	7444A 27110A 27255* 28255* 27854* 28854* 22121 C5531* C5731*	18.37 18.67 18.71 18.71 18.74 18.74 18.85 18.89 18.92	—	—	—	—	3102A† 3104A†	18.52 18.62	83803	4.34	—	—	—	—
4	7145A 7445A 27111A 27256* 28256* 27855* 28855* 22122 C5532* C5732* 1312A	18.33 18.37 18.67 18.71 18.71 18.74 18.74 18.85 18.89 18.92 19.36 21.20	—	—	7445AS	18.37	—	—	83804 29502	4.34 18.30	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
12 AWG *(continued)*														
5	27112A 27271* 28271* 27856* 28856* 22123 C5533*	18.67 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
6	27113A 27272* 28272* 27857* 28857* 22124 C5534*	18.67 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	83806	4.34	—	—	—	—
7	27114A 27273* 28273* 27858* 28858* 22125 C5535*	18.67 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
8	27115A 27274* 28274* 27859* 28859* 22126 C5536*	18.67 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
9	27116A 27538* 28538* 22127	18.67 18.71 18.71 18.85	—	—	—	—	—	—	—	—	—	—	—	—
10	27117A 27275* 28275* 27860* 28860* 22128 C5538*	18.67 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
11	27118A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
12	27119A 27276* 28276* 27861* 28861* 22130 C5540*	18.67 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
13	27120A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
14	27121A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
15	27122A 27277* 28277* 27862* 28862* C5543*	18.67 18.71 18.71 18.74 18.74 18.89	—	—	—	—	—	—	—	—	—	—	—	—
16	27123A 22134	18.67 18.85	—	—	—	—	—	—	—	—	—	—	—	—
17	27124A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
18	27125A	18.67	—	—	—	—	—	—	—	—	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
12 AWG *(continued)*														
19	27126A 27539* 28539*	18.67 18.71 18.71	—	—	—	—	—	—	—	—	—	—	—	—
20	27127A 27278* 28278* 27863* 28863* 22138 C5548*	18.67 18.71 18.71 18.74 18.74 18.85 18.89	—	—	—	—	—	—	—	—	—	—	—	—
21	27128A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
22	27129A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
23	27130A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
24	27131A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
10 AWG														
2	8678 27138A 27643A 27257* 28257* 27866* 28866* 22140 C5560* C5760* 1313A	4.8 18.68 18.68 18.72 18.72 18.75 18.75 18.85 18.90 18.92 19.36 21.20	—	—	—	—	—	—	—	—	—	—	—	—
3	27139A 27258* 28258* 27867* 28867* 22141 C5561* C5761*	18.68 18.72 18.72 18.75 18.75 18.85 18.90 18.92	—	—	—	—	—	—	—	—	—	—	—	—
4	7447A 27140A 27259* 28259* 27868* 28868* 22142 C5562* C5762*	18.38 18.68 18.72 18.72 18.75 18.75 18.85 18.90 18.92	—	—	7447AS	18.38	—	—	29503	18.30	—	—	—	—
5	27141A 27281* 28281* 27869* 28869* 22143 C5563*	18.68 18.72 18.72 18.75 18.75 18.85 18.90	—	—	—	—	—	—	—	—	—	—	—	—
6	27142A 27282* 28282* 27870* 28870* 22144 C5564*	18.68 18.72 18.72 18.75 18.75 18.85 18.90	—	—	—	—	—	—	—	—	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
10 AWG *(continued)*														
7	27143A 27283* 28283* 27877* 28877* 22145 C5565*	18.68 18.72 18.72 18.75 18.75 18.85 18.90	—	—	—	—	—	—	—	—	—	—	—	—
8	27144A 27284* 28284* 27878* 28878* 22146 C5566*	18.68 18.72 18.72 18.75 18.75 18.85 18.90	—	—	—	—	—	—	—	—	—	—	—	—
9	27145A 27541* 28541* 22147	18.68 18.72 18.72 18.85	—	—	—	—	—	—	—	—	—	—	—	—
10	27146A 27285* 28285* 27879* 28879* 22148 C5568*	18.68 18.72 18.72 18.75 18.75 18.85 18.90	—	—	—	—	—	—	—	—	—	—	—	—
11	27147A	18.68	—	—	—	—	—	—	—	—	—	—	—	—
12	27148A 27286* 28286* 27880* 28880* 22150 C5570*	18.68 18.72 18.72 18.75 18.75 18.85 18.90	—	—	—	—	—	—	—	—	—	—	—	—
14	22152	18.85	—	—	—	—	—	—	—	—	—	—	—	—
15	27287* 28287* 27881* 28881* C5573*	18.72 18.72 18.75 18.75 18.90	—	—	—	—	—	—	—	—	—	—	—	—
16	22154	18.85	—	—	—	—	—	—	—	—	—	—	—	—
20	27288* 28288* 27882* 28882* C5578*	18.72 18.72 18.75 18.75 18.90	—	—	—	—	—	—	—	—	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
8 AWG														
2	27149A 27291* 28291* 27871* 28871* 22160 C5583*	18.68 18.72 18.72 18.75 18.75 18.86 18.90 18.92	—	—	—	—	—	—	—	—	—	—	—	—
3	27150A 27260* 28260* 27872* 28872* 22161 C5581*	18.68 18.72 18.72 18.75 18.75 18.86 18.90 18.92	—	—	—	—	—	—	—	—	—	—	—	—
4	7450A 27151A 27261* 28261* 27873* 28873* 22162 C5582*	18.38 18.68 18.72 18.72 18.75 18.75 18.86 18.90 18.92	—	—	7450AS	18.37	—	—	29504	18.28	—	—	—	—
6 AWG														
2	27152A 27293* 28293* 27874* 28874* 22170 C5590*	18.68 18.72 18.72 18.75 18.75 18.86 18.93	—	—	—	—	—	—	—	—	—	—	—	—
3	27153A 27262* 28262* 27875* 28875* 22171 C5591*	18.68 18.72 18.72 18.75 18.75 18.86 18.93	—	—	—	—	—	—	—	—	—	—	—	—
4	7453A 27154A 27263* 28263* 27876* 28876* C5592*	18.38 18.68 18.72 18.72 18.75 18.75 18.93	—	—	—	—	—	—	29505	18.28	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
4 AWG														
2	27155A 22180	18.69 18.86	—	—	—	—	—	—	—	—	—	—	—	—
3	27156A 27264* 28264* 27894* 28894* 22181 C5601*	18.69 18.73 18.73 18.75 18.75 18.86 18.93	—	—	—	—	—	—	—	—	—	—	—	—
4	27157A 27265* 28265* 27895* 28895* C5602*	18.69 18.73 18.73 18.75 18.75 18.93	—	—	—	—	—	—	29506	18.30	—	—	—	—
3 AWG														
3	27896* 28896* C5611*	18.75 18.75 18.93	—	—	—	—	—	—	—	—	—	—	—	—
2 AWG														
2	27158A	18.69	—	—	—	—	—	—	—	—	—	—	—	—
3	27159A 27267* 28267* 27888* 28888* C5621*	18.69 18.73 18.73 18.76 18.76 18.93	—	—	—	—	—	—	—	—	—	—	—	—
4	27160A 27268* 28268* 27889* 28889* C5622*	18.69 18.73 18.73 18.76 18.76 18.93	—	—	—	—	—	—	29507	18.30	—	—	—	—
1 AWG														
3	27161A C5625*	18.69 18.94	29528	18.30	—	—	—	—	—	—	—	—	—	—
1/0 AWG														
3	C5627*	18.94	29529	18.30	—	—	—	—	—	—	—	—	—	—
2/0 AWG														
3	—	—	29530	18.30	—	—	—	—	—	—	—	—	—	—
3/0 AWG														
3	6163	18.94	29531	18.30	—	—	—	—	—	—	—	—	—	—
4/0 AWG														
3	—	—	29532	18.30	—	—	—	—	—	—	—	—	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
25 AWG and smaller														
25	—	—	—	—	—	—	8142FO	5.14	9637 8142	4.16 5.27 19.57	—	—	—	—
26	—	—	—	—	—	—	—	—	9813	5.26	—	—	—	—
32	—	—	—	—	—	—	—	—	—	—	7893A■	19.28	7886A◗	19.17
36	—	—	—	—	—	—	8148FO	5.14	8148 9819	5.27 5.26	—	—	—	—
48	—	—	—	—	—	—	—	—	—	—	—	—	7887A◗	19.17
50	—	—	—	—	—	—	8155FO	5.14	9825 8155 1401A	5.26 5.27 15.82	—	—	—	—
62	—	—	—	—	—	—	—	—	9814	5.26	—	—	—	—
64	—	—	—	—	—	—	—	—	—	—	—	—	7888A◗	19.17
68	—	—	—	—	—	—	—	—	1403A	15.82	—	—	—	—
96	—	—	—	—	—	—	—	—	—	—	—	—	7889A◗	19.17
24 AWG														
25	—	—	—	—	—	—	9543 9684 1424A 82512 88112	4.11 5.15 5.15 5.49 5.50	9617 9937 8342 8112	4.17 4.18 5.29 5.31 19.57	—	—	—	—
30	—	—	—	—	—	—	9544 9515 1425A	4.11 5.12 5.15	8345 8115	5.29 5.31	9735 8175■	5.35 19.29 5.45	—	—
32	24501848	15.65	—	—	—	—	—	—	—	—	1412R■ 1514C■ 1850F■	19.18 19.19 19.28	1916A	19.20
34	—	—	—	—	—	—	—	—	—	—	9736	5.35 19.29	—	—
36	—	—	—	—	—	—	—	—	8348 9837 8118	5.29 5.30 5.31	8178■ 89758	5.45 5.53 19.30	—	—
37	—	—	—	—	—	—	88118	5.50	9618 9938	4.17 4.18	—	—	—	—
38	—	—	—	—	—	—	9519	5.12	—	—	9737	5.35 19.29	—	—
40	—	—	—	—	—	—	9545	4.11	—	—	1413R■ 1515C■	19.18 19.19	—	—
48	1700S6 1701S6	15.55 15.55	—	—	—	—	—	—	—	—	1414R■ 1516C■ 1852F■	19.18 19.19 19.28	1924A	19.20
50	9585▼ 1864A▼ 1871A▼ 1232A1▼ 22713010 24501858 24571221 24572XXX 24576XXX 24577XXX 25500XXX	5.4 15.61 15.61 15.63 15.66 15.65 15.65 15.59 15.58 15.58 15.60	—	—	—	—	9546 9525 88125	4.11 5.12 5.50	9619 8355 9838 8125	4.17 5.29 5.30 5.31	9995 8185■	5.37 5.45	—	—
52	—	—	—	—	—	—	—	—	—	—	1415R■ 1517C■	19.18 19.19	—	—
54	—	—	—	—	—	—	—	—	—	—	9738	5.35 19.29	—	—
64	—	—	—	—	—	—	—	—	—	—	1416R■ 1518C■ 1854F■	19.18 19.19 19.28	1932A	19.20

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25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
100	—	—	—	—	—	—	9550	5.12	—	—	—	—	—	—
104	—	—	—	—	—	—	—	—	—	—	1519C■	19.19	—	—
100	24501877 24571235 22713020	15.65 15.65 15.66	—	—	—	—	—	—	—	—	—	—	—	—
150	24501887	15.65	—	—	—	—	—	—	—	—	—	—	—	—
200	24501897 24571250 22713030	15.65 15.65 15.66	—	—	—	—	—	—	—	—	—	—	—	—
210	22713035	15.66	—	—	—	—	—	—	—	—	—	—	—	—
400	24501906 24571265 22713040	15.65 15.65 15.66	—	—	—	—	—	—	—	—	—	—	—	—
500	22713045	15.66	—	—	—	—	—	—	—	—	—	—	—	—
600	24571266 22713050	15.65 15.66	—	—	—	—	—	—	—	—	—	—	—	—
800	22713060	15.66	—	—	—	—	—	—	—	—	—	—	—	—
1200	22713070	15.66	—	—	—	—	—	—	—	—	—	—	—	—
1800	22713080	15.66	—	—	—	—	—	—	—	—	—	—	—	—
2400	22713090	15.66	—	—	—	—	—	—	—	—	—	—	—	—
22 AWG														
25	8459	4.4	—	—	—	—	—	—	9948 8312	4.19 5.32	—	—	—	—
30	9432 8749	4.4 5.5	—	—	—	—	9315▼ 9524	5.17 18.42	8315	5.32	8766▼ 8776	5.37 5.40 19.23	—	—
32	—	—	—	—	—	—	3010A	18.42	—	—	3011A■ 1819R■ 1222B	18.43 19.21 19.22	—	—
34	—	—	—	—	—	—	—	—	—	—	9769	5.40 19.23	—	—
36	—	—	—	—	—	—	9772†	4.20	8318	5.32	—	—	—	—
37	—	—	—	—	—	—	—	—	9949	4.19	—	—	—	—
38	9748	5.5	—	—	—	—	9319▼ 9526	5.17 18.42	—	—	8769 9335	5.40 19.23 18.43	—	—
40	9433	4.4	—	—	—	—	—	—	—	—	1820R■ 1225B	19.21 19.22	—	—
48	—	—	—	—	—	—	3012A	18.42	—	—	3013A■ 1821R■ 1427B	18.43 19.21 19.22	—	—
50	9434	4.4	—	—	—	—	—	—	9950 8325	4.19 5.32	—	—	—	—
52	—	—	—	—	—	—	—	—	—	—	1822R■	19.21	—	—
54	8750	5.5	—	—	—	—	9327▼ 9527	5.17 18.42	—	—	8773	5.40 19.23	—	—
56	—	—	—	—	—	—	—	—	—	—	1221B	19.22	—	—
64	—	—	—	—	—	—	—	—	—	—	1823R■ 1226B	19.21 19.22	—	—
74	—	—	—	—	—	—	—	—	—	—	9767	5.40 19.23	—	—
76	—	—	—	—	—	—	8752▼	5.18	—	—	—	—	—	—
100	—	—	—	—	—	—	3014A	18.42	—	—	3015A■	18.43	—	—
102	—	—	—	—	—	—	8751▼	5.17	—	—	—	—	—	—
104	—	—	—	—	—	—	—	—	—	—	1428B	19.22	—	—

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† Triad
◗ Quad

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Multi-conductor and Paired Cable

25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG														
25	7108A 7408A	18.32 18.34	—	—	—	—	—	—	—	—	—	—	—	—
30	9755	5.7	—	—	—	—	—	—	—	—	9879	5.42	—	—
32	—	—	—	—	—	—	1059A	18.44	—	—	1079A■ 22643■ 23532*■ 26536*■	18.44 18.78 18.80 18.80	—	—
36	—	—	—	—	—	—	3022A†	18.45	—	—	1085A†■ 23571*†■ 26553*†■	18.45 18.80 18.80	—	—
40	—	—	—	—	—	—	—	—	—	—	1091A■	18.44	—	—
48	—	—	—	—	—	—	3023A† 1060A	18.45 18.44	—	—	1092A†■ 22673†■ 23549*†■ 26543*†■ 1080A■ 22647■ 23506*■ 26537*■	18.45 18.78 18.80 18.80 18.44 18.78 18.80 18.80	—	—
60	—	—	—	—	—	—	—	—	—	—	1086A†■	18.45	—	—
72	—	—	—	—	—	—	3024A† 1061A	18.45 18.44	—	—	3067A†■ 22674†■ 23550*†■ 26544*†■ 1081A■ 22670■ 23544*■ 26538*■	18.45 18.78 18.80 18.80 18.44 18.78 18.80 18.80	—	—
100	—	—	—	—	—	—	1062A	18.44	—	—	1082A■ 23575*■ 26546*■	18.44 18.80 18.80	—	—
18 AWG														
25	9626 7117A 7417A 27611A 29053*	4.6 18.32 18.35 18.64 18.88	—	—	7417AS	18.35	—	—	—	—	—	—	—	—
30	27612A 29058* 9742	18.64 18.88 5.8	—	—	—	—	9565	18.46	—	—	9777 9392	5.42 18.46	—	—
32	—	—	—	—	—	—	3034A 1067A	18.47 18.57	—	—	3035A■ 1052A■ 22654■ 23519*■ 26520*■	18.47 18.57 18.78 18.80 18.80	—	—
34	7418A	18.35	—	—	—	—	—	—	—	—	—	—	—	—
36	—	—	—	—	—	—	—	—	—	—	3068A†■ 1095A†■ 23512*†■ 26527*†■	18.48 18.58 18.80 18.80	—	—
37	27613A	18.64	—	—	—	—	—	—	—	—	—	—	—	—
38	9743	5.8	—	—	—	—	—	—	—	—	—	—	—	—

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25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
40	29068*	18.88	—	—	—	—	—	—	—	—	—	—	—	—
41	7419A	18.35	—	—	—	—	—	—	—	—	—	—	—	—
48	—	—	—	—	—	—	3036A† 1471A 1068A	18.48 18.47 18.57	—	—	3037A†■ 3066A†■ 22681†■ 22683†■ 23537*†■ 26528*†■ 1480A■ 1053A■ 22637■ 23542*■ 26521*■ 22419■ 24520*■ 25517*■	18.48 18.58 18.78 18.78 18.80 18.80 18.47 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—
50	27614A 29078*	18.64 18.88	—	—	—	—	—	—	—	—	—	—	—	—
60	27632A	18.64	—	—	—	—	—	—	—	—	—	—	—	—
72	—	—	—	—	—	—	3038A† 1472A 1087A	18.48 18.47 18.57	—	—	3039A†■ 1096A†■ 22682†■ 22684†■ 23536*†■ 26529*†■ 1481A■ 1054A■ 23554*■ 26555*■	18.48 18.57 18.78 18.78 18.80 18.80 18.47 18.57 18.80 18.80	—	—
100	—	—	—	—	—	—	3041A 1088A	18.47 18.57	—	—	3042A■ 1038A■	18.47 18.57	—	—
16 AWG														
25	9622 7129A 29024* 7429A	4.6 18.33 18.88 18.36	—	—	—	—	—	—	—	—	—	—	—	—
30	27626A 29008*	18.65 18.88	—	—	—	—	—	—	—	—	—	—	—	—
32	—	—	—	—	—	—	3050A 1073A	18.49 18.59	—	—	3051A■ 1043A■ 22685■ 23539*■ 26507*■	18.49 18.59 18.79 18.81 18.81	—	—
34	7430A	18.36	—	—	—	—	—	—	—	—	—	—	—	—
36	—	—	—	—	—	—	—	—	—	—	3069A†■ 1099A†■ 22690†■ 23541*†■ 26513*†■	18.50 18.60 18.79 18.81 18.81	—	—
37	27627A	18.65	—	—	—	—	—	—	—	—	—	—	—	—
40	29009*	18.88	—	—	—	—	—	—	—	—	1044A■	18.59	—	—

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Multi-conductor and Paired Cable

25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
48	—	—	—	—	—	—	3052A†	18.50	—	—	3053A†■	18.50	—	—
							1489A	18.49			3118A†■	18.60		
							1074A	18.59			23567*†■	18.81		
											26545*†■	18.81		
											1498A■	18.49		
											1045A■	18.59		
											22686■	18.79		
											23538*■	18.81		
											26508*■	18.81		
											22447■	18.82		
											24510*■	18.83		
											25519*■	18.83		
50	27628A	18.65	—	—	—	—	—	—	—	—	—	—	—	—
	29016*	18.88												
60	27633A	18.65	—	—	—	—	—	—	—	—	—	—	—	—
	29025*	18.88												
72	—	—	—	—	—	—	3054A†	18.50	—	—	3055A†■	18.50	—	—
							1490A	18.49			1100A†■	18.60		
							1089A	18.59			23578*†■	18.81		
											26547*†■	18.81		
											1499A■	18.49		
											1046A■	18.59		
											23568*■	18.81		
											26551*■	18.81		
100	—	—	—	—	—	—	3056A	18.49	—	—	3057A■	18.49	—	—
							1090A	18.59			1047A■	18.59		
108	—	—	—	—	—	—	—	—	—	—	3130A†■	18.60	—	—
14 AWG														
25	7442A	18.37	—	—	—	—	—	—	—	—	—	—	—	—
	27103A	18.66												
	27270*	18.71												
	28270*	18.71												
	27851*	18.74												
	28851*	18.74												
	C5503*	18.89												
	C5523	18.89												
26	27104A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
27	27105A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
28	27106A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
29	27107A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
30	27108A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
	27253*	18.71												
	28253*	18.71												
	27852*	18.74												
	28852*	18.74												
	C5528*	18.89												
37	27629A	18.66	—	—	—	—	—	—	—	—	—	—	—	—
	27292*	18.71												
	28292*	18.71												

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† Triad
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Multi-conductor Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG *(continued)*														
40	27433* 28433* 27885* 28885* C5529*	18.71 18.71 18.74 18.74 18.89	—	—	—	—	—	—	—	—	—	—	—	—
50	27912A 27434* 28434* 27886* 28886* C6064*	18.66 18.71 18.71 18.74 18.74 18.89	—	—	—	—	—	—	—	—	—	—	—	—
12 AWG														
25	27132A 27279* 28279* 27864* 28864* C5553*	18.67 18.71 18.71 18.74 18.74 18.89	—	—	—	—	—	—	—	—	—	—	—	—
26	27133A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
27	27134A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
28	27135A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
29	27136A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
30	27137A 27280* 28280* 27865* 28865* C5558*	18.67 18.71 18.71 18.74 18.74 18.89	—	—	—	—	—	—	—	—	—	—	—	—
37	27630A 27540* 28540*	18.67 18.71 18.71	—	—	—	—	—	—	—	—	—	—	—	—
40	27432* 28432* 27887* 28887*	18.71 18.71 18.74 18.74	—	—	—	—	—	—	—	—	—	—	—	—
50	27634A	18.67	—	—	—	—	—	—	—	—	—	—	—	—
10 AWG														
25	27289* 28289* 27883* 28883* C5579*	18.72 18.72 18.75 18.75 18.90	—	—	—	—	—	—	—	—	—	—	—	—
30	27290* 28290* 27884* 28884* C5580*	18.72 18.72 18.75 18.75 18.90	—	—	—	—	—	—	—	—	—	—	—	—

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Multi-conductor and Paired Cables

Combination Gages (Unshielded, Shielded and Partially Shielded)

No. of Conductors or Pairs	Part No.	Conductor/Gage Description	Shielding	Page
Combination Gages				
4	3084A	1pr — 24 AWG 1pr — 22 AWG	Beldfoil® each pair plus braid overall	18.23
	3084F	1pr — 24 AWG 1pr — 22 AWG	Beldfoil each pair plus braid overall	18.23
	3085A	1pr — 24 AWG 1pr — 22 AWG	Beldfoil each pair plus braid overall	18.23
	7895A	1pr — 20 AWG 1pr — 18 AWG	Beldfoil each pair plus braid overall	18.24
	7900A	1pr — 18 AWG 1pr — 16 AWG	Unshielded	18.22
	7896A	1pr — 18 AWG 1pr — 16 AWG	Beldfoil each pair plus braid overall	18.22
	7897A	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	18.22
	3082A	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	18.23
	3083A	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	18.23
	3082F	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	18.23
	3086A	1pr — 20 AWG 1pr — 16 AWG	Individual Beldfoil each pair	18.25
	3124A	2c — 22 AWG 2c — 18 AWG	Overall Beldfoil	18.26
	3125A	2c — 22 AWG 2c — 16 AWG	Overall Beldfoil	18.26
	1502P	1pr — 22 AWG 2c — 18 AWG	Beldfoil Unshielded	19.39
	1502R	1pr — 22 AWG 2c — 18 AWG	Beldfoil Unshielded	19.39
	9155	1pr — 20 AWG 1pr — 18 AWG	Beldfoil Unshielded	5.47
6	8446	4c — 22 AWG 2c — 18 AWG	Unshielded	4.7
	9686	3c — 20 AWG 3c — 16 AWG	Unshielded	4.7
	8786	4c — 24 AWG 2c — 22 AWG	Beldfoil over 4c, Unshielded	4.20
	3126A	2c — 22 AWG 2c — 16 AWG 2c — 12 AWG	Overall Beldfoil	18.26
	27428*	3c — 14 AWG 3c — 12 AWG	Unshielded	18.73
	28428*	3c — 14 AWG 3c — 12 AWG	Unshielded	18.73
	27429*	3c — 14 AWG 3c — 10 AWG	Unshielded	18.73
	28429*	3c — 14 AWG 3c — 10 AWG	Unshielded	18.73
	27430*	3c — 14 AWG 3c — 8 AWG	Unshielded	18.73
	28430*	3c — 14 AWG 3c — 8 AWG	Unshielded	18.73
	27431*	3c — 14 AWG 3c — 6 AWG	Unshielded	18.73

No. of Conductors or Pairs	Part No.	Conductor/Gage Description	Shielding	Page
Combination Gages				
6 *(cont'd)*	28431*	3c — 14 AWG 3c — 6 AWG	Unshielded	18.73
	27890*	3c — 14 AWG 3c — 12 AWG	Unshielded	18.76
	28890* 27891*	3c — 14 AWG 3c — 12 AWG 3c — 14 AWG 3c — 10 AWG	Unshielded Unshielded	18.76 18.76
	28891*	3c — 14 AWG 3c — 10 AWG	Unshielded	18.76
	27892*	3c — 14 AWG 3c — 8 AWG	Unshielded	18.76
	28892*	3c — 14 AWG 3c — 8 AWG	Unshielded	18.76
	27893*	3c — 14 AWG 3c — 6 AWG	Unshielded	18.76
	28893*	3c — 14 AWG 3c — 6 AWG	Unshielded	18.76
	6054*	3c — 14 AWG 3c — 12 AWG	Unshielded	18.91
	6051*	3c — 14 AWG 3c — 10 AWG	Unshielded	18.91
	6059*	3c — 14 AWG 3c — 8 AWG	Unshielded	18.91
	6060*	3c — 14 AWG 3c — 6 AWG	Unshielded	18.91
8	9405	6c — 18 AWG 2c — 16 AWG	Unshielded	4.8
	8448	6c — 22 AWG 2c — 18 AWG	Unshielded	4.8
	9903●	3pr — 28 AWG 1pr — 24 AWG	Individual Beldfoil plus braid	15.75
	9891●	3pr — 22 AWG 1pr — 20 AWG	Individual Beldfoil plus braid	15.76
9	3119A●	3pr — 24 AWG 3c — 18 AWG	Overall Beldfoil plus braid	18.27
10	8787	4c — 24 AWG 4c — 24 AWG 2c — 22 AWG	Red or Green Beldfoil over (2) Quads, Unshielded	4.20
12	7949A	4pr — 24 AWG▼ 4c — 16 AWG	Unshielded	21.8
	7950A	4pr — 24 AWG▼ 4c — 16 AWG	Unshielded	21.8
	7951A	4pr — 24 AWG▼ 4c — 18 AWG	Unshielded	21.8
	7952A	4pr — 24 AWG▼ 4c — 14 AWG	Unshielded	21.8
23	9641	6pr — 26 AWG 10c — 26 AWG 1c — 24 AWG	Overall foil plus braid	4.16

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Multi-conductor and Paired Cables

Partially Shielded Cables (Combination Unshielded and Shielded Conductors)

No. of Conductors	Part No.	Conductor/Gage Description	Shielding	Page
25 AWG				
4	8434	1pr — 25 AWG	Beldfoil®	5.46
		1pr — 25 AWG	Unshielded plus overall foil shield	
22 AWG				
3	8734	1c — 22 AWG	Braid	4.14
		2c — 22 AWG	Unshielded	
	9685	1pr — 22 AWG	Beldfoil	5.46
		1c — 22 AWG	Unshielded	
4	8732	1pr — 22 AWG	Braid	5.23
		1pr — 22 AWG	Unshielded	
	8730	1pr — 22 AWG	Beldfoil	5.46
		1pr — 22 AWG	Unshielded	
	8724	1pr — 22 AWG	Beldfoil	5.46
		1pr — 22 AWG	Unshielded	
5	8788	3c — 22 AWG	Individual Beldfoil	4.20
		2c — 22 AWG	Unshielded	
12	9689	2pr — 22 AWG	Individual Beldfoil plus overall braid	15.80
		4pr — 22 AWG	Unshielded	
	82689	2pr — 22 AWG	Individual Beldfoil plus overall braid	15.80
		4pr — 22 AWG	Unshielded	
20 AWG				
3	8763	1pr — 20 AWG	Beldfoil	5.47
		1c — 20 AWG	Unshielded	
4	8722	1pr — 20 AWG	Beldfoil	5.47
		1pr — 20 AWG	Unshielded	

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† Triad
◗ Quad

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Paired Cable

No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
25 AWG and smaller														
1	—	—	—	—	—	—	9271 9180	6.88 18.17 19.27 19.58	—	—	—	—	—	—
2	—	—	—	—	—	—	8132FO	5.14	9804 8132	5.26 5.27	1215A■ 7891A■	15.80 19.28	—	—
3	—	—	—	—	—	—	8133FO	5.14	9805 8133 1538A	5.26 5.27 15.81	—	—	—	—
4	—	—	—	—	—	—	8134FO	5.14	9806 8134	5.26 5.27	7890A■	19.28	—	—
5	—	—	—	—	—	—	8135FO	5.14	9807 8135	5.26 5.27	—	—	—	—
7	—	—	—	—	—	—	—	—	9808	5.26	—	—	—	—
8	—	—	—	—	—	—	8138FO	5.14	8138	5.27	7880A■	19.28	—	—
9	—	—	—	—	—	—	—	—	9809	5.26	—	—	—	—
12	—	—	—	—	—	—	—	—	9812	5.26	7892A■	19.28	—	—
12-1/2	—	—	—	—	—	—	8142FO	5.14	8142	5.27 19.57	—	—	—	—
13	—	—	—	—	—	—	—	—	9813	5.26	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	7893A■	19.28	—	—
18	—	—	—	—	—	—	8148FO	5.14	8148 9819	5.27 5.26	—	—	—	—
25	—	—	—	—	—	—	8155FO	5.14	9825 8155 1401A	5.26 5.27 15.82	—	—	—	—
31	—	—	—	—	—	—	—	—	9814	5.26	—	—	—	—
34	—	—	—	—	—	—	—	—	1403A	15.82	—	—	—	—
24 AWG														
1	—	—	—	—	1800F	19.5	9501 8641 82641 88641 1508A 1883A 1800B 1801B	5.11 5.16 19.10 5.13 5.16 5.49 19.10 5.13 5.16 5.49 19.19 5.16 19.9 5.16 19.9 19.27 21.24 19.27	9841 82841 89841 7200A 7205A 7206A	5.28 5.28 5.52 5.28 5.52 18.39 18.39 18.39	—	—	—	—
2	9562▼ 1588A▼ 1588R▼ 1590A▼ 1227A1▼ 1243A2▼ 24501922 7932A	5.4 15.56 15.56 15.57 15.63 15.63 15.64 18.8	—	—	—	—	9502 82502 1419A 88102 7933A 89842	5.11 5.13 5.49 5.15 5.50 18.9 5.28 5.52	9842 82842 8332 9829 8102 7201A	5.28 5.28 5.52 5.29 5.30 5.31 18.39	9729 89729 82729 1802B* 1509C■ 8162■	5.35 18.29 19.29 5.36 5.53 19.30 5.36 5.53 19.30 19.27 19.19 5.44	1902A	19.20

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Paired Cable

No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
3	24501934 24571097	15.64 15.64	—	—	—	—	9503 82503 89503 9680 1420A 88103	5.11 5.13 5.49 5.13 5.49 5.15 5.15 5.50	9843 8333 9830 8103 3120A 7202A	5.28 5.29 5.30 5.31 18.27 18.39	9730 89730 8163■ 9990	5.35 19.29 5.36 5.53 19.30 5.44 5.37	—	—
4	1229A1▼ 1245A2▼ 1304A 1305A 1500A▼ 1500R▼ 1501A▼ 1583A▼ 1583B▼ 1583R▼ 1585A▼ 1585B▼ 1585LC▼ 1592A 1594A▼ 1700A▼ 1700R▼ 1701A▼ 1701LC▼ 1752A 1875GB 7918A 7923A 7924A 7928A 7930A 7934A 7987P 7987R 7988P 7988R 7997A 11700A 11700A2 121700A* 24501XXX 24566XXX 24567XXX 24568XXX 24570XXX 24571XXX	15.63 15.63 19.76 19.76 15.54 15.54 21.10 15.54 15.56 15.56 15.56 21.11 15.57 21.11 15.57 15.57 15.57 15.56 15.50 15.50 15.50 21.10 15.50 15.73 15.72 18.10 18.8 18.9 18.8 18.10 18.8 19.74 19.74 15.71 19.75 15.71 19.75 15.56 18.8 18.8 18.10 15.65 15.65 15.65 15.65 15.65 15.65	—	—	—	—	9504 82504 89504 9681 1421A 88104 1533R▼ 1533P▼ 1624R▼ 1624P▼ 1633A▼ 7929A 7919A 1300A 1300SB	5.11 5.13 5.49 5.13 5.15 5.15 5.50 15.67 15.67 15.68 15.68 15.69 18.9 18.10 19.76 15.67 19.76	9844 8334 9831 8104 7203A 7921A 89842	5.28 5.29 5.30 5.31 18.39 18.9 5.28 5.52	9728 89728 8164■ 1408R■ 1510C■ 1803F■	5.35 19.29 5.36 5.53 19.30 5.44 19.18 19.19 19.28	1904A	19.20
5	—	—	—	—	—	—	9505 82505 89505 1422A 88105	5.11 5.13 5.49 5.13 5.49 5.15 5.50	8335 9832 8105	5.29 5.30 5.31	8165■ 89705	5.44 5.53 19.30	—	—

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Paired Cable

No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
6	9566▼ 24501829	5.4 15.65	—	—	—	—	9506 82506 9682 1423A 88106	5.12 5.13 5.15 5.15 5.50	8336 9839 8106	5.29 5.30 5.31	9731 89731 9991 8166■ 1409R■ 1511C■	5.35 19.29 5.36 5.53 19.30 5.37 5.44 19.18 19.19	1906A	19.20
7	—	—	—	—	—	—	9507	5.12	8337 9833 8107	5.29 5.30 5.31	8167■ 89757	5.44 5.53 19.30	—	—
7-1/2	—	—	—	—	—	—	88107	5.50	—	—	—	—	—	—
8	1702A◆▼ 1703A◆▼	15.50 15.50	—	—	—	—	9508 1668A▼	5.12 15.69	8108	5.31	8168■ 1410R■ 1512C■ 1805F■	5.45 19.18 19.19 19.28	1908A	19.20
9	—	—	—	—	—	—	9509 82509 9683 88109	5.12 5.13 5.49 5.15 5.50	9834	5.30	9732 89732 9992	5.35 19.29 5.36 5.53 19.30 5.37	—	—
10	9570▼	5.4	—	—	—	—	9510	5.12	8340 9835 8110	5.29 5.30 5.31	8170■	5.45	—	—
11	—	—	—	—	—	—	—	—	—	—	9733	5.35 19.29	—	—
12	24501837	15.65	—	—	—	—	—	—	9836	5.30	9734 9993 89734 1411R■ 1513C■ 1806F■	5.35 19.29 5.37 5.53 19.30 19.18 19.19 19.28	1912A	19.20
12-1/2	—	—	—	—	—	—	9684 1424A 82512 88112	5.15 5.15 5.49 5.50	8342 8112	5.29 5.31 19.57	—	—	—	—
15	—	—	—	—	—	—	9515 1425A	5.12 5.15	8345 8115	5.29 5.31	9735 8175■	5.35 19.29 5.45	—	—
16	24501848	15.65	—	—	—	—	—	—	—	—	1412R■ 1514C■ 1850F■	19.18 19.19 19.28	1916A	19.20
17	—	—	—	—	—	—	—	—	—	—	9736	5.35 19.29	—	—
18	—	—	—	—	—	—	—	—	8348 9837 8118	5.29 5.30 5.31	8178■ 89758	5.45 5.53 19.30	—	—
18-1/2	—	—	—	—	—	—	88118	5.50	—	—	—	—	—	—
19	—	—	—	—	—	—	9519	5.12	—	—	9737	5.35 19.29	—	—
20	—	—	—	—	—	—	—	—	—	—	1413R■ 1515C■	19.18 19.19	—	—
24	1700S6 1701S6	15.55 15.55	—	—	—	—	—	—	—	—	1414R■ 1516C■ 1852F■	19.18 19.19 19.28	1924A	19.20

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Paired Cable

No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
25	9585▼ 1864A▼ 1871A▼ 1232A1▼ 22713010 24501858 24570XXX 24571221 25500XXX	5.4 15.61 15.61 15.63 15.66 15.65 15.65 15.65 15.60	—	—	—	—	9525 88125	5.12 5.50	8355 9838 8125	5.29 5.30 5.31	9995 8185■	5.37 5.45	—	—
26	—	—	—	—	—	—	—	—	—	—	1415R■ 1517C■	19.18 19.19	—	—
27	—	—	—	—	—	—	—	—	—	—	9738	5.35 19.29	—	—
32	—	—	—	—	—	—	—	—	—	—	1416R■ 1518C■ 1854F■	19.18 19.19 19.28	1932A	19.20
50	24501877 24571235 22713020	15.65 15.65 15.66	—	—	—	—	9550	5.12	—	—	1519C■	19.19	—	—
75	24501887	15.65	—	—	—	—	—	—	—	—	—	—	—	—
100	24501897 24571250 22713030	15.65 15.65 15.66	—	—	—	—	—	—	—	—	—	—	—	—
105	22713035	15.66	—	—	—	—	—	—	—	—	—	—	—	—
200	24501906 24571265 22713040	15.65 15.65 15.66	—	—	—	—	—	—	—	—	—	—	—	—
250	22713045	15.66	—	—	—	—	—	—	—	—	—	—	—	—
300	24571266 22713050	15.65 15.66	—	—	—	—	—	—	—	—	—	—	—	—
400	22713060	15.66	—	—	—	—	—	—	—	—	—	—	—	—
600	22713070	15.66	—	—	—	—	—	—	—	—	—	—	—	—
900	22713080	15.66	—	—	—	—	—	—	—	—	—	—	—	—
1200	22713090	15.66	—	—	—	—	—	—	—	—	—	—	—	—
23 AWG														
4	1872A▼ 1874A▼ 7813LC 7851A▼ 7851NH 7852A▼ 7881A▼ 7882A▼ 7883A▼ 7927A 7931A 7989P 7989R 11872A▼ 121872A*▼ 24586XXX 24587XXX 24588XXX	15.48 15.48 15.53 15.46 15.46 15.46 15.52 21.9 15.52 21.9 15.72 18.11 18.11 15.70 19.75 15.70 19.75 18.11 18.11 15.47 15.47 15.47	—	—	—	—	—	—	—	—	—	—	—	—

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No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG														
1	8740▼ 88442 82442 9407 9151 8451	5.4 4.4 4.23 5.6 5.48 4.4 4.23 5.6 5.48 18.42 12.33 5.19 19.10	8737	5.24	8437▼ 8441	5.23 5.23	8450▼ 9414 9462 8761 9461 8451 9451 1266A 1503A 88761 87761 82761 9182● 89182● 3077F 3078F 3079E 9322 9451P 9451SB	19.10 5.18 5.18 5.18 19.11 5.18 19.11 5.19 19.10 5.19 19.10 5.19 19.10 5.19 19.10 5.20 5.51 19.11 5.20 5.51 19.11 5.20 5.51 19.11 6.88 18.17 6.88 18.17 18.21 18.21 18.21 18.42 5.20 19.10 5.19 19.10	3079A 3105A 1696A	18.21 18.28 19.27	—	—	—	—
1-1/2	—	—	—	—	—	—	—	—	3106A	18.28	—	—	—	—
2	8741▼ 9744 88741 82741	5.4 5.5 5.6 5.48 5.6	—	—	—	—	9302▼ 9184▼ 3000A 9512 9451DP	5.17 5.17 18.42 18.42 5.19 19.13	8302 9855▼ 1268A▼ 89855▼ 1269A▼ 9696▼ 89696▼ 3107A	5.32 5.33 5.33 5.33 5.52 5.33 5.33 5.33 5.52 18.28	9406 8723 82723 88723 87723 8728■ 9688■▼ 82688■▼ 1634A■▼ 3087A 9451D◆ 1504A◆ 9328 3001A■ 1814R■ 8723SB	5.38 5.38 18.29 19.12 21.24 5.38 5.54 19.12 5.38 5.54 18.29 19.12 5.38 5.54 19.12 5.46 15.79 15.79 15.79 18.25 19.13 5.20 19.13 18.43 18.43 19.21 5.38 19.12	—	—

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Paired Cable

No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG *(continued)*														
3	8742▼ 9745 82742	5.4 5.5 5.6 5.48	—	—	—	—	9513	18.42	8303 3108A	5.32 18.28	8767▼ 8777 82777 88777 87777 8777SB 9329	5.37 5.40 18.27 19.23 5.41 5.54 19.24 5.41 5.54 19.24 5.41 5.54 19.24 5.40 19.12 18.43	—	—
4	8757▼ 9746 88757 82757 7922A	5.4 5.5 5.6 5.48 5.6 5.48 18.9	—	—	—	—	9305▼ 3004A 9514 8723SB	5.17 18.42 18.42 5.38 19.12	8304 3109A 9891	5.32 18.28 15.76	9330 3005A■ 1815R■ 1217B	18.43 18.43 19.21 19.22	—	—
5	—	—	—	—	—	—	—	—	8305	5.32	—	—	—	—
6	8743▼ 8747 82743	5.4 5.5 5.6 5.48	—	—	—	—	9306▼ 9516	5.17 18.42	8306	5.32	8768▼ 8778 82778 88778 87778 9331 1816R■ 1218B	5.37 5.40 19.23 5.41 5.54 19.24 5.41 5.54 19.24 5.41 5.54 19.24 18.43 19.21 19.22	—	—
7	—	—	—	—	—	—	—	—	8307	5.32	—	—	—	—
8	9160▼	5.4	—	—	—	—	3006A	18.42	8308	5.32	3007A■ 1817R■	18.43 19.21	—	—
9	8744▼ 8748	5.4 5.5	—	—	—	—	9309▼ 9520	5.17 18.42	—	—	8764▼ 8774 9332 1219B	5.37 5.40 19.23 18.43 19.22	—	—
10	—	—	—	—	—	—	—	—	8310	5.32	—	—	—	—
11	—	—	—	—	—	—	9521	18.42	—	—	8765▼ 8775 9333	5.37 5.40 19.23 18.43	—	—
12	9747	5.5	—	—	—	—	3008A	18.42	—	—	9768 3009A■ 1818R■ 1220B	5.40 19.23 18.43 19.21 19.22	—	—
12-1/2	—	—	—	—	—	—	—	—	8312	5.32	—	—	—	—
15	8749	5.5	—	—	—	—	9315▼ 9524	5.17 18.42	8315	5.32	8766▼ 8776	5.37 5.40 19.23	—	—

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No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG *(continued)*														
16	—	—	—	—	—	—	3010A	18.42	—	—	3011A■ 1819R■ 1222B	18.43 19.21 19.22	—	—
17	—	—	—	—	—	—	—	—	—	—	9769	5.40 19.23	—	—
18	—	—	—	—	—	—	—	—	8318	5.32	—	—	—	—
19	9748	5.5	—	—	—	—	9319▼ 9526	5.17 18.42	—	—	8769 9335	5.40 19.23 18.43	—	—
20	—	—	—	—	—	—	—	—	—	—	1820R■ 1225B	19.21 19.22	—	—
24	—	—	—	—	—	—	3012A	18.42	—	—	3013A■ 1821R■ 1427B	18.43 19.21 19.22	—	—
25	—	—	—	—	—	—	—	—	8325	5.32	—	—	—	—
26	—	—	—	—	—	—	—	—	—	—	1822R■	19.21	—	—
27	8750	5.5	—	—	—	—	9327▼ 9527	5.17 18.42	—	—	8773	5.40 19.23	—	—
28	—	—	—	—	—	—	—	—	—	—	1221B	19.22	—	—
32	—	—	—	—	—	—	—	—	—	—	1823R■ 1226B	19.21 19.22	—	—
37	—	—	—	—	—	—	—	—	—	—	9767	5.40 19.23	—	—
38	—	—	—	—	—	—	8752▼	5.18	—	—	—	—	—	—
50	—	—	—	—	—	—	3014A	18.42	—	—	3015A■	18.43	—	—
51	—	—	—	—	—	—	8751▼	5.17	—	—	—	—	—	—
52	—	—	—	—	—	—	—	—	—	—	1428B	19.22	—	—
20 AWG														
1	8205 9408 83930 83932 83934 83900 83905 83910 83915	19.35 18.43 18.55 18.55 18.55 18.55 18.55 18.55 18.55	8759	19.13	—	—	8762 9464 9154 9320 1033A 3111A 3112A 3113A 83955 83950 83952 83954	5.20 19.13 5.20 19.13 5.21 19.13 18.44 18.44 18.54 18.54 18.54 18.55 18.55 18.55 18.55	9463 9463DB 89463 129463* 139463* 189463* 9463F	6.87 18.14 18.14 18.14 18.14 18.14 18.14 18.14	22671■ 23543*■ 26530*■	18.78 18.80 18.80	—	—
2	—	—	—	—	—	—	3016A	15.44	—	—	9402 1075A■ 3115A■ 22638■ 23534*■ 26531*■	5.41 18.44 18.54 18.78 18.80 18.80	—	—
3	9750	5.7	—	—	—	—	—	—	—	—	9883 9873	5.41 5.42	—	—
4	—	—	—	—	—	—	85164 1056A	5.11 18.44	9891 9892 89892	15.76 15.76 15.76	8725 9901•■ 89901•■ 1076A■ 1006A■ 1012A■ 22639■ 23514*■ 26532*■	5.47 15.75 15.75 18.44 18.54 18.54 18.78 18.80 18.80	—	—

▼Solid conductors
◆Siamese version
* Armored
• Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad

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Paired Cable

No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG *(continued)*														
5	—	—	—	—	—	—	—	—	—	—	9902●■	15.75	—	—
6	9751	5.7	—	—	—	—	—	—	—	—	9886 9874 22640■ 23513*■ 26533*■	5.41 5.42 18.78 18.80 18.80	—	—
8	—	—	—	—	—	—	85168 1057A	5.11 18.44	—	—	1077A■ 1013A■ 22641■ 23503*■ 26534*■	18.44 18.54 18.78 18.80 18.80	—	—
9	9752	5.7	—	—	—	—	—	—	—	—	9875	5.42	—	—
11	—	—	—	—	—	—	—	—	—	—	9876	5.42	—	—
12	—	—	—	—	—	—	1058A	18.44	—	—	9877 1078A■ 1014A■ 22676■ 23521*■ 26535*■	5.42 18.44 18.54 18.78 18.80 18.80	—	—
15	9755	5.7	—	—	—	—	—	—	—	—	9879	5.42	—	—
16	—	—	—	—	—	—	1059A	18.44	—	—	1079A■ 22643■ 23532*■ 26536*■	18.44 18.78 18.80 18.80	—	—
20	—	—	—	—	—	—	—	—	—	—	1091A■	18.44	—	—
24	—	—	—	—	—	—	1060A	18.44	—	—	1080A■ 22647■ 23506*■ 26537*■	18.44 18.78 18.80 18.80	—	—
36	—	—	—	—	—	—	1061A	18.44	—	—	1081A■ 22670■ 23544*■ 26538*■	18.44 18.78 18.80 18.80	—	—
50	—	—	—	—	—	—	1062A	18.44	—	—	1082A■ 23575*■ 26546*■	18.44 18.80 18.80	—	—
19 AWG														
1	8486	5.7	—	—	—	—	—	—	—	—	—	—	—	—
18 AWG														
1	8461 9740 89740 87740 82740 9409 9486 8460 1863A	19.36 5.7 5.8 5.9 5.48 5.9 5.48 5.9 5.48 18.46 18.57 19.33 12.34	8790	5.24 19.14	8208	5.23	8760 9460 88760 87760 82760 3076F 9318 1032A 9341 1120A 3088A	5.21 19.14 5.21 19.14 5.21 5.51 19.14 5.21 5.51 19.14 5.21 5.51 19.14 18.19 18.46 18.47 18.57 18.57 18.57	3072F 3073F 3074F	18.18 18.18 18.18	22645■ 23533*■ 26514*■ 22417■ 24511*■ 25506*■ 3088AE 3088CE	18.78 18.80 18.80 18.82 18.83 18.83 18.58 18.58	—	—

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Paired Cable

No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
2	9156	5.8	—	—	—	—	9552 3025A 1063A	18.46 18.47 18.57	—	—	9368 1474A■ 1048A■ 22633■ 23511*■ 26515*■ 22405■ 24512*■ 25514*■	18.46 18.47 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—
3	8690	5.8	—	—	—	—	9553 1529A	18.46 18.47	—	—	9773 9369	5.42 18.46	—	—
4	9157	5.8	—	—	—	—	9554 1466A 1064A	18.46 18.47 18.57	—	—	3029A 9388 1475A■ 1049A■ 22648■ 23530*■ 26516*■ 22404■ 24513*■ 25503*■	18.46 18.46 18.47 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—
5	9159	5.8	—	—	—	—	—	—	—	—	—	—	—	—
6	8691	5.8	—	—	—	—	9556	18.46	—	—	9774 9389 22634■ 23528*■ 26517*■	5.42 18.46 18.78 18.80 18.80	—	—
8	9161	5.8	—	—	—	—	1467A 1065A	18.47 18.57	—	—	1476A■ 1050A■ 22635■ 23531*■ 26518*■ 22418■ 24514*■ 25505*■	18.47 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—
9	8692	5.8	—	—	—	—	9559	18.46	—	—	9775 9390	5.42 18.46	—	—
11	—	—	—	—	—	—	9563	18.46	—	—	9391	18.46	—	—
12	9741	5.8	—	—	—	—	1468A 1066A	18.47 18.57	—	—	9776 1477A■ 1051A■ 22636■ 23524*■ 26519*■ 22421■ 24515*■ 25501*■	5.42 18.47 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—
15	9742	5.8	—	—	—	—	9565	18.46	—	—	9777 9392	5.42 18.46	—	—
16	—	—	—	—	—	—	3034A 1067A	18.47 18.57	—	—	3035A■ 1052A■ 22654■ 23519*■ 26520*■	18.47 18.57 18.78 18.80 18.80	—	—
19	9743	5.8	—	—	—	—	—	—	—	—	—	—	—	—

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Paired Cable

No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
24	—	—	—	—	—	—	1471A 1068A	18.47 18.57	—	—	1480A■ 1053A■ 22637■ 23542*■ 26521*■ 22419■ 24520*■ 25517*■	18.47 18.57 18.78 18.80 18.80 18.82 18.83 18.83	—	—
36	—	—	—	—	—	—	1472A 1087A	18.47 18.57	—	—	1481A■ 1054A■ 23554*■ 26555*■	18.47 18.57 18.80 18.80	—	—
50	—	—	—	—	—	—	3041A 1088A	18.47 18.57	—	—	3042A■ 1038A■	18.47 18.57	—	—
16 AWG														
1	8470 8471 1035A 1307A 1862A 9410 9487 9497	19.33 5.9 19.35 18.49 19.36 21.20 19.33 18.49 18.59 19.33	8780	5.24 19.15	—	—	8719 9316 1030A 1101A 1000A 1018A 1023A 1114A▼ 1115A▼ 1116A▼ 1117A▼ 83951 83953 9342 1118A 3090A 3090AE 3090CE	5.22 19.15 18.49 18.49 18.54 18.54 18.54 18.54 18.55 18.55 18.55 18.55 18.55 18.55 18.59 18.59 18.59 18.60 18.60	—	—	22646■ 23501*■ 26500*■ 22416■ 24500*■ 25504*■	18.79 18.81 18.81 18.82 18.83 18.83	—	—
2	3082K 3082KP	18.24 18.24	—	—	—	—	3043A 1069A	18.49 18.59	—	—	1492A■ 1055A■ 22628■ 23527*■ 26501*■ 22409■ 24505*■ 25510*■	18.49 18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—
3	—	—	—	—	—	—	1528A 1527A	18.49 18.59	—	—	1037A■	18.59	—	—
4	—	—	—	—	—	—	1484A 1070A	18.49 18.59	—	—	1493A■ 1039A■ 22629■ 23509*■ 26503*■ 22410■ 24502*■ 25511*■	18.49 18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—
6	—	—	—	—	—	—	—	—	—	—	1040A■ 22630■ 23500*■ 26504*■ 22446■ 24506*■ 25512*■	18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—

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Paired Cable

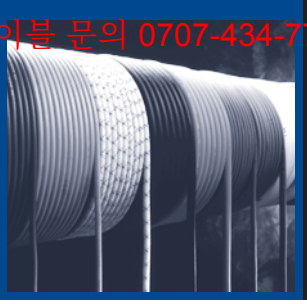
No. of Pairs	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
8	—	—	—	—	—	—	1485A 1071A	18.49 18.59	—	—	1494A■ 1041A■ 22631■ 23510*■ 26505*■ 22411■ 24503*■ 25513*■	18.49 18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—
12	—	—	—	—	—	—	1486A 1072A	18.49 18.59	—	—	1495A■ 1042A■ 22632■ 23525*■ 26506*■ 22412■ 24504*■ 25518*■	18.49 18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—
16	—	—	—	—	—	—	3050A 1073A	18.49 18.59	—	—	3051A■ 1043A■ 22685■ 23539*■ 26507*■	18.49 18.59 18.79 18.81 18.81	—	—
20	—	—	—	—	—	—	—	—	—	—	1044A■	18.59	—	—
24	—	—	—	—	—	—	1489A 1074A	18.49 18.59	—	—	1498A■ 1045A■ 22686■ 23538*■ 26508*■ 22447■ 24510*■ 25519*■	18.49 18.59 18.79 18.81 18.81 18.82 18.83 18.83	—	—
36	—	—	—	—	—	—	1490A 1089A	18.49 18.59	—	—	1499A■ 1046A■ 23568*■ 26551*■	18.49 18.59 18.81 18.81	—	—
50	—	—	—	—	—	—	3056A 1090A	18.49 18.59	—	—	3057A■ 1047A■	18.49 18.59	—	—
14 AWG														
1	8473 9411 9488 3080A 1861A	5.9 19.35 18.51 18.61 18.61 19.34	—	—	—	—	8720 9314 9343	5.22 19.15 18.51 18.61	—	—	—	—	—	—
12 AWG														
1	8477 9412 9489 1311A 1860A	5.9 19.35 18.52 18.62 19.36 21.20 19.34	—	—	—	—	8718 9312 9344 3103A	5.22 19.15 18.52 18.62 18.62	—	—	—	—	—	—
10 AWG														
1	1313A	19.3 21.20	—	—	—	—	—	—	—	—	—	—	—	—

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BELDEN
SENDING ALL THE RIGHT SIGNALS



3 Hook-Up and Lead Wire



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Hypalon and Teflon are DuPont trademarks.

Please refer to "Terms of Use of Master Catalog" on page 22.22

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Introduction

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Belden® hook-up and lead wire products are manufactured in a variety of materials, sizes and designs to meet rigid industry and government specifications. Manufactured in-house, our hook-up and lead wire manufacturing process begins with copper rod. Our rubber formulation and plastic mixing facilities give us complete control of the product from start to finish. As a result, consistent quality of these products is always assured.

Our hook-up and lead wire products can be used in a wealth of applications including inter-connection circuits, internal wiring of computer and data processing equipment, appliances, lighting, motor leads, heating and cooling equipment, harness fabrication and automotive.

Most of our hook-up and lead wire constructions are available from stock in a wide variety of colors and packages. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find hook-up or lead wire in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Special Ordering Information

Number Printed Wire

Thermosetting and thermoplastic constructions can be supplied with printed numbers. Price and delivery information is available upon request.

Hypalon and Neoprene Constructions

These constructions may require a special topcoat to facilitate printing by customers. Minimum order is 5000′ per AWG. Please order the standard item and specify "Top-Coated" and specify color. Orders must be in multiples of standard packages. Price and delivery information is available upon request.

Manufacturer's Identification

Identification of the hook-up and lead wire is provided by our UL and CSA files numbers or printed name on the wire jacket.

UL/CSA	File Number	Style
UL	E-12683	1XXX, 2XXX, 3XXX, 4XXX, 5XXX
	E-9147	GTO 10
	E-6934	SF-1, SFF-1, SF-2, SFF-2
	E-3197	SIS
CSA	LL-7874	All Types

Appliance Wiring Material (AWM)

Appliance Wiring Material is Underwriter Laboratories, Inc.'s recognized covering of insulated wire and cable intended for internal wiring of appliances and equipment. Each construction satisfies the requirements for use in particular applications. Wiring materials recognized under this classification bear the Underwriters' "Appliance Wiring Material Label."

UL & CSA Type by Belden Series

UL Style*	CSA Type	Belden Series Number	Temp. Rating	Page No.
1007	TR-64	328, 99	80°C	3.4
1015	TEW	327, 99, 89	105°C	3.5
1028	TEW	99, 89	105°C	3.6
1061	AWM	99	80°C	3.3
1180	—	830	200°C	3.9
1213	—	830	105°C	3.10
1283	TEW	99	105°C	3.6
1371	—	830	105°C	3.11
1569	TRSR-64	99	105°C	3.4
1855	—	—	80°C	3.24
3044	CL902	315	90°C	3.18
3046	CL903	315, 325	90°C	3.18
3048	CL902	315	90°C	3.18
3049	CL902	315	90°C	3.18
3069	SEWF-2	308	150°C	3.21
3070	SEWF-2	308	150°C	3.21
3071	SEW-2	324	200°C	3.20
3074	SEW-2	324	200°C	3.20
3075	SEW-2	324	200°C	3.20
3101	SEWF-2	308	150°C	3.21
3123	—	340	150°C	3.21
3125	SEW-2	308	200°C	3.20
3126	SEW-2	308	200°C	3.20
3135	—	334	200°C	3.19
3173	CL1251	356	125°C	3.14
3190	CL1052	349	105°C	3.17
3191	CL1052	344	105°C	3.16
3192	CL1052	344	105°C	3.16
3193	CL1052	344	105°C	3.16
3195	CL1251	356	125°C	3.14
3196	CL1251	356	125°C	3.14
3199	CL1054	357	105°C	3.14
3212	AWM	333	150°C	3.19
3213	AWM	333	150°C	3.19
3214	AWM	333	150°C	3.19
3239	—	—	80°C	3.22
3321	AWM	354	150°C	3.15
3340	CL1254	371	150°C	3.12
3374	CL1254	371	150°C	3.12
3436	CL1251	354	150°C	3.15
3484	AWM	372	125°C	3.13
3499	—	375	150°C	3.13
GTO-10	GTO-10	390	105°C	3.24
SIS	—	310	90°C	3.15

*These UL Styles are the Belden product which are listed in this catalog.

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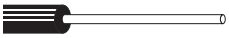
PVC

UL AWM Style 1061
300V, 80°C
(CSA AWM)

Product Description

Tinned copper, semi-rigid PVC insulation (solid conductors suitable for wire wrap applications).

Solid Conductor



Stranded Conductor



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
300V, 80°C (UL & CSA)										
UL AWM Style 1061 • CSA AWM										
9978	30 (solid)	.010	.25	.030	.76	100	30.5	.1	.05	1–5, 7–10, 13
						1000	304.8	1.0	.50	1–5, 7–10, 13
9987	30 (7x38)	.010	.25	.032	.81	100	30.5	.1	.05	2, 7–10
						1000	304.8	1.0	.50	2, 7–10
9977	28 (solid)	.010	.25	.033	.84	100	30.5	.1	.05	1–5, 7–10, 13
						1000	304.8	1.0	.50	1–5, 7–10, 13
9986	28 (7x36)	.010	.25	.035	.89	100	30.5	.1	.05	1–5, 7–10, 13
						1000 *	304.8	2.0	1.00	1–5, 7–10, 13
						10000 *	3048.0	10.0	4.50	2, 4, 10, 13
9976	26 (solid)	.010	.25	.036	.91	100	30.5	.2	.10	1–5, 7–10, 13
						1000 *	304.8	2.0	.90	1–5, 7–10, 13
9985	26 (7x34)	.010	.25	.039	.99	100	30.5	.2	.10	1–5, 7–10, 13
						1000 *	304.8	2.0	.90	1–5, 7–10, 13
						5000 *	1524.0	10.0	4.50	4, 5, 10, 13
9975	24 (solid)	.010	.25	.040	1.02	100	30.5	.2	.10	1–5, 7–10, 13
						1000 *	304.8	3.0	1.40	1–5, 7–10, 13
						5000 *	1524.0	10.0	4.50	2, 10
9984	24 (7x32)	.010	.25	.044	1.12	100	30.5	.2	.10	1–5, 7–10, 13
						1000 *	304.8	3.0	1.40	1–5, 7–10, 13
						5000 *	1524.0	10.0	4.50	2, 3, 5, 10, 13
9979	22 (solid)	.010	.25	.047	1.19	1000 *	304.8	4.0	1.80	1–5, 7–10, 13
						5000 *	1524.0	15.0	6.80	9
9983	22 (7x30)	.010	.25	.050	1.27	100	30.5	.3	.10	1–5, 7–10, 13
						1000 *	304.8	4.0	1.80	1–5, 7–10, 13
						5000 *	1524.0	15.0	6.80	1, 9, 13
						10000 *	3048.0	30.0	13.60	1–3, 9, 10
9982	20 (7x28)	.010	.25	.057	1.45	100	30.5	.5	.20	1–5, 7–10, 13
						1000 *	304.8	5.0	2.30	1–5, 7–10, 13
						5000 *	1524.0	20.0	9.07	9, 13
9917	20 (10x30)	.010	.25	.056	1.42	1000 *	304.8	5.0	2.30	1–4, 7, 9, 10
9911	18 (16x30)	.010	.25	.067	1.70	1000	304.8	7.0	3.20	1–5, 7–10, 13
9981	18 (19x30)	.010	.25	.066	1.68	100	30.5	.8	.40	1–5, 7–10, 13
						1000 *	304.8	7.0	3.20	1–5, 7–10, 13
9980	16 (19x28)	.010	.25	.078	1.98	100	30.5	1.3	.60	1–5, 7–10, 13
						1000 *	304.8	11.0	5.00	1–5, 7–10, 13
9909	16 (26x30)	.010	.25	.080	2.03	100 *	30.5	1.2	.50	3, 7
						1000 *	304.8	11.0	5.00	2–5, 7, 9, 10

*Stripe colors on stock solid colors. Striping adder of $8.00/1000 ft. for one or two stripes. 10,000 ft. minimum order for color combination. Put-up will be subject to two pieces ±10% per spool with a minimum length of 100 ft.

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PVC

UL AWM Style 1007 300V, 80°C

(JQA-F-)
VW-1

Product Description

Tinned copper, PVC insulation. Rated 80°C, 300V. Rated 600V peak for electronic circuits, and internal wiring of electronic and electrical equipment.



UL and CSA Dual-Rated Wire

UL AWM Style 1007 — 300V, 80°C
(CSA Type TR-64, 90°C)

UL AWM Style 1569 — 300V, 105°C
(CSA Type TRSR-64, 105°C)

(JQA-F- [except 9989])
VW-1

Product Description

Tinned copper, PVC insulation. Rated 105°C, 300V. Rated 600V peak for electronic circuits, and internal wiring of electronic and electrical equipment.



UL AWM Style 1007 300V, 80°C

(CSA Type TR-64, 90°C)
(JQA-F-)
VW-1

Recommended maximum baking cycles:
24 hours @ 300°F (149°C)



Stranded tinned copper conductor
(Uni-Strand®)

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
300V, 80°C (UL)										
UL AWM Style 1007 • JQA-F-										
9930	30 (7x38)	.015	.38	.044	1.12	100	30.5	.2	.1	1–5, 7–10, 13
						1000 *	304.8	2.0	.9	1–5, 7–10, 13
Dual-Rated • 300V, 80°C and 300V, 105°C (UL & CSA)										
UL AWM Style 1007 and 1569 • CSA Types TR-64 and TRSR-64 • JQA-F-										
9928	28 (7x36)	.015	.38	.047	1.19	100	30.5	.2	.1	1–5, 7, 9, 10, 13
						1000 *	304.8	2.0	.9	1–5, 7–10, 13
						5000 *	1524.0	10.0	4.5	4, 10
9926	26 (7x34)	.015	.38	.051	1.30	100	30.5	.2	.1	1–5, 7–10, 13
						1000 *	304.8	3.0	1.4	1–5, 7–10, 13
						5000 *	1524.0	10.0	4.5	2, 5, 9, 10, 13
9923	24 (7x32)	.015	.38	.056	1.42	100	30.5	.3	.1	1, 2, 4, 5, 9, 10
						1000 *	304.8	4.0	1.8	1–5, 7–10, 13
						5000 *	1524.0	15.0	6.8	1–5, 7–10, 13
9921	22 (7x30)	.015	.38	.062	1.57	100	30.5	.4	.2	1–10, 13
						1000 *	304.8	5.0	2.3	1–10, 13
						5000 *	1524.0	20.0	9.1	1–6, 8–10, 13
9919	20 (7x28)	.015	.38	.069	1.75	100	30.5	.7	.3	1–5, 7–10, 13
						1000 *	304.8	6.0	2.7	1–5, 7–10, 13
9920	20 (10x30)	.015	.38	.067	1.70	1000 *	304.8	6.0	2.7	1–10, 13
						5000 *	1524.0	25.0	11.4	2, 6, 9, 10, 13
9918	18 (16x30)	.015	.38	.079	2.01	100	30.5	.9	.4	1–10, 13
						1000 *	304.8	8.0	3.6	1–10, 13
						5000 *	1524.0	35.0	15.9	1–5, 7–10, 13
9916	16 (26x30)	.015	.38	.092	2.34	100	30.5	1.3	.6	1–5, 7–10, 13
						1000 *	304.8	12.0	5.5	1–5, 7–10, 13
						5000 *	1524.0	55.0	25.0	1–3, 5, 9, 10
UL AWM Style 1569 • CSA Type TR-64 and TRSR-64										
9989	14 (41x30)	.015	.38	.110	2.79	1000 *	304.8	17.0	7.7	1–5, 7, 9, 10, 13
300V, 80°C (UL) • **300V, 90°C** (CSA)										
UL AWM Style 1007 • CSA Type TR-64 • JQA-F-										
32822	22 (7x30) [.36 (7x.25)]	.015	.38	.062	1.58	5000†	1524.0	20.0	9.1	1–5, 7–10, 13
32820	20 (7x28) [.56 (7x.32)]	.015	.38	.068	1.73	5000†	1524.0	25.0	11.4	9

*Stripe colors on stock solid colors. Striping adder of $8.00/1000 ft. for one or two stripes. 10,000 ft. minimum order for color combination. Put-up will be subject to two pieces ±10% per spool with a minimum length of 100 ft.

†May contain more than one piece. Minimum length of any one piece is 200 ft.

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PVC

UL AWM Style 1015 600V, 105°C
(CSA Type TEW)
(JQA-F-)
VW-1

Product Description

Tinned copper, PVC insulation. Rated 105°C, 600V. Rated 2500V peak for electronic circuits, and internal wiring of electronic and electrical equipment.



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
600V, 105°C (UL & CSA)										
UL AWM Style 1015 • CSA Type TEW • JQA-F-										
9924	24 (7x32)	.030	.76	.088	2.24	100	30.5	.7	.3	1–5, 9, 10, 13
						1000 *	304.8	5.0	2.3	1–5, 7–10, 13
						5000	1524.0	25.0	11.4	9, 10
8920	22 (7x30)	.030	.76	.093	2.36	100	30.5	.8	.4	1–5, 9, 10, 13
						1000 *	304.8	7.0	3.2	1–5, 7–10, 13
						5000 *	1524.0	30.0	13.6	1, 2, 4, 5, 10 ,13
8919	20 (10x30)	.030	.76	.100	2.54	100	30.5	.9	.4	1–5, 9, 10, 13
						1000 *	304.8	8.0	3.6	1–5, 7–10, 13
						5000 *	1524.0	40.0	18.2	2, 4, 9, 10, 13
8918	18 (16x30)	.030	.76	.110	2.79	100	30.5	1.2	.5	1–5, 9, 10, 13, 189
						1000 *	304.8	10.0	4.5	1–5, 7–10, 13, 189
						5000 *	1524.0	50.0	22.7	1, 2, 4, 5, 7–10, 13
8915	18 (solid)	.030	.76	.105	2.67	1000 *	304.8	10.0	4.5	2–5, 8–10, 13
						5000 *	1524.0	50.0	22.7	2, 10
8917	16 (26x30)	.030	.76	.123	3.12	100	30.5	2.2	1.0	1–5, 9, 10, 13, 189
						500	152.4	7.5	3.4	1–5, 9, 10, 13
						1000 *	304.8	13.0	6.0	1–5, 7–10, 13, 189
						4000	1219.2	56.0	25.4	189
						5000 *	1524.0	70.0	31.8	1, 2, 5, 9, 10, 13
8916	14 (41x30)	.030	.76	.138	3.51	100	30.5	2.8	1.3	1–5, 7–10, 13, 189
						500	152.4	10.5	4.8	1–5, 7–10, 13, 189
						4000 *	1219.2	80.0	36.4	1–5, 7–10, 13
9912	12 (65x30)	.030	.76	.158	4.01	100	30.5	3.7	1.7	1–5, 7–10, 13
						250	76.2	7.8	3.5	1–5, 8–10, 13
						2000	609.6	60.0	27.3	1–5, 9, 10, 13
9910	10 (65x28)	.030	.76	.180	4.57	100	30.5	5.2	2.4	2, 4, 9, 10
						250	76.2	11.3	5.1	2, 4, 9, 10
						2000	609.6	86.0	39.1	2, 9, 10
8910	10 (105x30)	.030	.76	.186	4.72	500	152.4	22.0	10.0	1–5, 7–10, 13
						2000	609.6	92.0	41.8	1, 3, 4, 8, 10, 13

UL AWM Style 1015 600V, 105°C
(CSA Type TEW)
(JQA-F-)
VW-1

Product Description

Uni-Strand® conductors.

Recommended maximum baking cycles:
48 hours @ 275°F (135°C) • 24 hours @ 300°F (149°C)



Stranded tinned copper conductor (Uni-Strand®)

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
600V, 105°C (UL & CSA)										
UL AWM Style 1015 • CSA Type TEW • JQA-F-										
32722	22 (7x30) [.36 (7x.25)]	.030	.76	.093	2.36	5000†	1524.0	35.0	13.9	2, 8, 9, 10
32720	20 (7x28) [.56 (7x.32)]	.030	.76	.099	2.52	4000†	1219.2	28.0	12.7	1–5, 9, 10, 13
32718	18 (7x26) [.90 (7x.40)]	.032	.80	.108	2.74	4000†	1219.2	40.0	18.2	2–5, 7, 9, 10, 13

*Stripe colors on stock solid colors. Striping adder of $8.00/1000 ft. for one or two stripes. 10,000 ft. minimum order for color combination. Put-up will be subject to two pieces ±10% per spool with a minimum length of 100 ft.

†May contain more than one piece. Minimum length of any one piece is 200 ft.

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PVC

UL AWM Style 1028 and 1015 600V, 105°C

(CSA Type TEW)

VW-1

Product Description

Tinned copper, PVC insulation.



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
600V, 105°C (UL & CSA)										
UL AWM Style 1028 and 1015 • CSA Type TEW										
9908	8 (84x27)	.045	1.14	.250	6.35	100	30.5	8.0	3.6	2, 4, 9, 10
						250	76.2	19.0	8.7	2, 9, 10
8908	8 (133x29)	.045	1.14	.262	6.65	250	76.2	18.5	8.4	1–5, 7–10, 13
						1500	457.2	115.5	52.4	2, 4, 5, 7, 8, 10

UL AWM Style 1283 and 1015 600V, 105°C

(CSA Type TEW)

VW-1

Product Description

Tinned copper, PVC insulation.



600V, 105°C (UL & CSA)										
UL AWM Style 1283 and 1015 • CSA Type TEW										
9906	6 (133x27)	.060	1.52	.331	8.41	100	30.5	11.7	5.3	1–5, 7–10, 13
						1000	304.8	122.0	55.5	1–5, 8–10, 13
9904	4 (133x25)	.060	1.52	.392	9.96	50	15.2	11.2	5.1	1–5, 7–10, 13
						500	152.4	100.5	45.7	1, 2, 4, 9, 10

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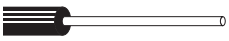
PVC

(Type MW) MIL-W-76C-PVC 1000V, 80°C**

Product Description

Tinned copper, PVC insulation, medium wall. The extruded PVC insulation is flame and ozone resistant and inert to most chemicals, oils, and solvents. Covers single conductor, PVC insulation hook-up wire for internal wiring of electrical and electronic equipment.

Solid Conductor



Stranded Conductor



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
1000V, 80°C (MIL-Spec)										
(Type MW) MIL-W-76C-PVC										
8538	24 (solid) MW-C24 (1) A	.017	0.43	.055	1.40	100	30.5	.3	.1	1–10
						1000 *	304.8	4.0	1.8	1–10
8525	24 (7x32) MW-C24 (7) A	.017	0.43	.058	1.47	100	30.5	.3	.1	1–21
						1000	304.8	4.0	1.8	1–13,* 14–21
8530	22 (solid) MW-C22 (1) A	.017	0.43	.059	1.50	100	30.5	.4	.2	1–13
						1000 *	304.8	4.0	1.8	1–13
8524	22 (7x30) MW-C22 (7) A	.017	0.43	.064	1.63	100	30.5	.4	.2	1–30
						1000	304.8	5.0	2.3	1–13,* 14–30
8529	20 (solid) MW-C20 (1) A	.017	0.43	.066	1.68	100	30.5	.7	.3	1–10, 13
						1000 *	304.8	6.0	2.7	1–10, 13
8523	20 (10x30) MW-C20 (10) A	.017	0.43	.070	1.78	100	30.5	.7	.3	1–24, 27, 29, 30
						1000	304.8	6.0	2.7	1–13,* 14–24, 30
8522	18 (16x30) MW-C18 (16) A	.017	0.43	.080	2.03	100	30.5	.9	.4	1–30
						1000	304.8	8.0	3.6	1-13,* 14-24,26,28,30
8521	16 (26x30) MW-C16 (26) A	.019	0.48	.098	2.49	100	30.5	1.4	.6	1–22
						1000	304.8	12.0	5.5	1–13,* 14–22
8520	14 (41x30) MW-C14 (41) A	.018	0.46	.111	2.82	100	30.5	1.9	.9	1–11, 13–16, 18, 19
						1000	304.8	17.0	7.7	1-10,* 13,* 14-17, 18, 20
8527	12 (65x30) MW-C12 (65) A	.018	0.46	.128	3.25	100	30.5	3.3	1.5	1–7, 9, 10
						1000 *	304.8	24.0	10.9	1–10

*Stripe colors on stock solid colors. Striping adder of $8.00/1000 ft. for one or two stripes. 10,000 ft. minimum order for color combination. Put-up will be subject to two pieces ±10% per spool with a minimum length of 100 ft.

**Certification available upon special request.

(Type B) MIL-W-16878/1-PVC 600V, 105°C**

Product Description

Tinned copper, PVC insulation. Covers insulated wire for internal wiring of meters, panels, and electrical or electronic equipment. Temperatures to 105°C. For high-temperature MIL-Spec hook-up wire, see pages 3.9 to 3.11.



600V, 105°C (MIL-Spec)										
(Type B) MIL-W-16878/1-PVC										
8597	28 (7x36) B-28	.010	.25	.035	.89	100	30.5	.1	.1	1–10
						1000	304.8	1.0	.5	1–10
8505	26 (7x34) B-26	.010	.25	.039	.99	100	30.5	.2	.1	1–10, 14-22
						1000	304.8	1.0	.5	1–10,* 14-18, 20
8504	24 (7x32) B-24	.010	.25	.044	1.12	100	30.5	.2	.1	1–10, 14-22
						1000	304.8	2.0	.9	1–10,* 14-20, 22
8503	22 (7x30) B-22	.010	.25	.050	1.27	100	30.5	.3	.1	1–10, 14-22
						1000	304.8	3.0	1.4	1–10,* 14-22
8502	20 (7x28) B-20	.010	.25	.058	1.47	100	30.5	.5	.2	1–10, 14-16, 18–20
						1000	304.8	4.0	1.8	1–10,* 14-16, 18–20
8501	18 (7x26) B-18	.010	.25	.068	1.73	100	30.5	.9	.4	1–10, 14-18, 20–22
						1000	304.8	7.0	3.2	1–10,* 14-18, 20–22
8500	16 (19x29) B-16	.010	.25	.079	2.01	100	30.5	1.2	.5	1–10, 14-22
						1000	304.8	10.0	4.5	1–10,* 14-22

*Stripe colors on stock solid colors. Striping adder of $8.00/1000 ft. for one or two stripes. 10,000 ft. minimum order for color combination. Put-up will be subject to two pieces ±10% per spool with a minimum length of 100 ft.

**Certification available upon special request.

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PVC
Hook-Up Wire on Racks

Wire Dispenser Kits

Product Description

Great for R and D labs, engineers, servicemen and hobbyists.

Specify Part No. 8800 for Rack only.



Part No.	No. of Spools	Type of Wire (Part No.)	Temp. Rating	AWG (stranding)	Spool Lengths		Standard Unit Weight		Colors in Kits (See Color Codes Chart on Page 3.29)
					Ft.	m	Lbs.	kg	
Wire Dispenser Kits									
Hook-Up Wire on Racks									
8816	8	Tinned PVC (8522)	80°C	18 (16x30)	25	7.6	2.5	1.1	1,2,3,4,5,6,9,10
8824	8	Tinned PVC (8523)	80°C	20 (10x30)	25	7.6	2.1	1.0	1,2,3,4,5,6,9,10
8825	5	Tinned PVC (8502)	105°C	20 (7x28)	100	30.5	3.1	1.4	2,4,5,9,10
9531	5	Tinned PVC (8524)	80°C	22 (7x30)	100	30.5	2.7	1.2	2,5,6,9,10

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Teflon®
High-Temperature

UL AWM Style 1180
300V, 200°C
(Type EE) MIL-W-16878/5
Teflon — 1000V, 200°C
VW-1

Product Description

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
300V, 200°C (UL) • **1000V, 200°C** (MIL-Spec)										
UL AWM Style 1180 • (Type EE) MIL-W-16878/5 — Teflon										
83023*	24 (19x36)	.015	.38	.053	1.35	100 †	30.5	.4	.2	1–10
						500 ▲	152.4	2.5	1.1	2, 4, 5, 9, 10
						1000 ▲	304.8	4.0	1.8	1–10
83025	22 (7x30)	.015	.38	.060	1.52	100 †	30.5	.5	.2	1–7, 9, 10
						500 ▲	152.4	3.0	1.4	2, 9, 10
						1000 ▲	304.8	5.0	2.3	1–7, 9, 10
83026*	22 (19x34)	.015	.38	.059	1.50	100 †	30.5	.5	.2	1–10
						500 ▲	152.4	3.0	1.4	2, 9, 10
						1000 ▲	304.8	5.0	2.3	1–10
83027*	20 (19x32)	.015	.38	.068	1.73	100 ††	30.5	.8	.4	1–10
						500 ▲	152.4	4.0	1.8	2, 9, 10
						1000 ▲	304.8	7.0	3.2	1–10
83028	20 (7x28)	.015	.38	.068	1.73	100 ††	30.5	.8	.4	1–10
						1000 ▲	304.8	7.0	3.2	1–10
83029*	18 (19x30)	.015	.38	.077	1.96	100 ††	30.5	1.1	.5	1–10
						500 ▲	152.4	5.5	2.5	2, 5, 6, 9, 10
						1000 ▲	304.8	9.0	4.1	1–10
83030*	16 (19x29)	.015	.38	.088	2.24	100 ††	30.5	1.3	.6	1–10
						500 ▲	152.4	6.5	3.0	2, 9, 10
						1000 ▲	304.8	12.0	5.4	1–10

*Complies with MIL-W-16878 except stranding.
†100 ft. put-ups are exact, but may contain 2 pieces max.
††100 ft. put-ups are exact, one piece.
▲May contain more than one piece. Minimum length of any one piece is 25 ft.

Teflon is a DuPont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Teflon®
High-Temperature

UL AWM Style 1213 — 105°C
(Type E) MIL-W-16878/4
Teflon — 600V, 200°C
VW-1

Product Description

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
105°C (UL) • **600V, 200°C** (MIL-Spec)										
UL AWM Style 1213 • (Type E) MIL-W-16878/4 — Teflon										
83000	30 (7x38)	.010	.25	.032	.81	100 †	30.5	.1	.05	1–10
						1000 ▲	304.8	1.0	.50	1–10
83001*	28 (7x36)	.010	.25	.035	.89	100 †	30.5	.2	.10	1–10
						1000 ▲	304.8	2.0	.90	1–10
83002	26 (7x34)	.010	.25	.039	.99	100 †	30.5	.2	.10	1–10
						500 ▲	152.4	1.0	.50	9
						1000 ▲	304.8	3.0	1.40	1–10
83003*	24 (19x36)	.010	.25	.043	1.09	100 †	30.5	.3	.10	1–10
						500 ▲	152.4	1.5	.70	1–10
						1000 ▲	304.8	3.0	1.40	1–10
83004	24 (7x32)	.010	.25	.043	1.09	100 †	30.5	.3	.10	1–10
						500 ▲	152.4	1.5	.70	2, 10
						1000 ▲	304.8	3.0	1.40	1–10
83005	22 (7x30)	.010	.25	.049	1.24	100 †	30.5	.4	.20	1–10
						500 ▲	152.4	2.5	1.10	2, 9, 10
						1000 ▲	304.8	4.0	1.80	1–10
83006*	22 (19x34)	.010	.25	.048	1.22	100 †	30.5	.4	.20	1–10
						500 ▲	152.4	2.5	1.10	1–10
						1000 ▲	304.8	4.0	1.80	1–10
83007*	20 (19x32)	.010	.25	.056	1.42	100 ††	30.5	.5	.20	1–10
						500 ▲	152.4	3.5	1.60	2, 6, 9, 10
						1000 ▲	304.8	6.0	2.70	1–10
83008	20 (7x28)	.010	.25	.058	1.47	100 †	30.5	.5	.20	1–10
						500 ▲	152.4	3.5	1.60	1–10
						1000 ▲	304.8	6.0	2.70	1–10

*Complies with MIL-W-16878 except stranding.
†100 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 25 ft.
††100 ft. put-ups are exact, one piece.
▲May contain more than one piece. Length may vary ±10% from length shown.

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Teflon®
High-Temperature

UL AWM Style 1371 — 105°C
(Type E) MIL-W-16878/4
Teflon — 600V, 200°C
VW-1

Product Description

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.



105°C (UL) • **600V, 200°C** (MIL-Spec)

Part No.	AWG (stranding)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
UL AWM Style 1371 • (Type E) MIL-W-16878/4 — Teflon										
83009*	18 (19x30)	.011	.28	.068	1.73	100 †	30.5	1.0	.5	1–10
						500 ▲	152.4	4.5	2.0	1–10
						1000 ▲	304.8	8.0	3.6	1–10
83010*	16 (19x29)	.012	.30	.076	1.93	100 †	30.5	1.2	.5	1–10
						500 ▲	152.4	6.0	2.7	1–10
						1000 ▲	304.8	11.0	5.0	1–10

*Complies with MIL-W-16878 except stranding.
†100 ft. put-ups are exact, one piece.
▲May contain more than one piece. Length may vary ±10% from length shown.

UL AWM Style 1371 — 105°C
(Type ET) MIL-W-16878/6
Teflon — 250V, 200°C
VW-1

Product Description

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.



105°C (UL) • **250V, 200°C** (MIL-Spec)

Part No.	AWG (stranding)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
UL AWM Style 1371 • (Type ET) MIL-W-16878/6 — Teflon										
83041	32 (7x40)	.006	.15	.022	.56	100 ††	30.5	.1	.05	6, 7, 10
						1000 ▲	304.8	1.0	.50	6, 7, 10
83043	30 (7x38)	.006	.15	.024	.61	100 ††	30.5	.1	.05	2, 5, 7–10
						1000 ▲	304.8	1.0	.50	2, 5, 7, 9, 10
83045	28 (7x36)	.006	.15	.027	.69	100 ††	30.5	.1	.05	1, 2, 5, 6, 9, 10
						1000 ▲	304.8	1.0	.50	1, 2, 5, 6, 9, 10
83046	26 (7x34)	.006	.15	.031	.79	100 ††	30.5	.2	.10	1–4, 6–9
						1000 ▲	304.8	2.0	.90	1–4, 6–10
83047	24 (7x32)	.006	.15	.036	.91	100 ††	30.5	.2	.10	6, 8–10
						1000 ▲	304.8	2.0	.90	2, 6, 8–10
83048	24 (19x36)	.006	.15	.036	.91	100 ††	30.5	.2	.10	1–3, 5, 7, 8, 10
						1000 ▲	304.8	2.0	.90	1–3, 5, 7, 8, 10
83049	22 (7x30)	.006	.15	.042	1.07	100 ††	30.5	.3	.10	1–10
						1000 ▲	304.8	4.0	1.80	1–10
83050	22 (19x34)	.006	.15	.042	1.07	100 ††	30.5	.3	.10	1–3, 5–9
						1000 ▲	304.8	4.0	1.80	1–3, 5–9

††100 ft. put-ups are exact, max. 2 pieces. Minimum length of any one piece is 25 ft.
▲May contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

EPDM
High-Temperature

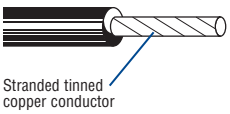
UL AWM Style 3340 and 3374
600V, 125°C Flex/150°C No Flex
(CSA Type CL1254)

Product Description

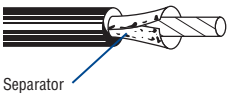
The insulation used for this High-Temperature lead wire is a chemically cross-linked ethylene-propylene diene elastomer. Never before could you find many of the characteristics that are found in Silicone and Hypalon® combined into one insulation. This 150°C EPDM wire offers more abrasion resistance than Hypalon… has the temperature rating of Silicone… at a price less than Silicone. EPDM has exceptional qualities that help you achieve new levels of economy and quality. 150°C EPDM wire is recommended for Class 130(B), 155(F) and also in some 180(H) systems. It's UL Recognized under Style 3374 as a 150°C—600V Appliance Wiring Material. The CSA Listing, as a coil lead, is 125°C, 600V. For additional technical information, see Technical Information pages at the end of this section.

Recommended maximum baking cycles:
24 hours @ 350°F (177°C) • 4 hours @ 375°F (190°C)

Stranded Conductor



Separator Over Conductor



Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 125°C Flex/150°C No Flex (UL) • **600V, 125°C** (CSA)										
UL AWM Style 3340 and 3374 • CSA Type CL1254										
37118	18 (16x30) [.82 (16x.25)]	.045	1.14	.142	3.61	500 †	152.4	7.5	3.4	2, 4, 5, 9, 10, 13
						5000 ††	1524.0	70.0	31.8	2, 9, 10, 13
37116	16 (26x30) [1.32 (26x.25)]	.045	1.14	.154	3.91	500 †	152.4	9.5	4.3	2, 4, 5, 9, 10, 13
						4000 ††	1219.2	72.0	32.7	10
						5000 ††	1524.0	90.0	40.9	10
37114	14 (41x30) [2.08 (41x.25)]	.045	1.14	.169	4.29	500 †	152.4	12.5	5.7	2, 10
						4000 ††	1219.2	96.0	43.6	2, 10
						5000 ††	1524.0	125.0	56.8	10
37112	12 (65x30) [3.29 (65x.25)]	.045	1.14	.190	4.83	500 †	152.4	16.5	7.5	2, 10
						3000 ††	914.4	105.0	47.7	10
						5000 ††	1524.0	175.0	79.5	10
37110	10 (65x28) [5.23 (65x.32)]	.060	1.52	.240	6.10	500 †	152.4	26.0	11.8	10
						2000 ††	609.6	108.0	49.2	10
						5000 ††	1524.0	275.0	125.0	10
37108▼	8 (84x27) [8.60 (84x.36)]	.080	2.03	.327	8.31	250 **	76.2	22.5	10.2	10
						500 †	152.4	48.0	21.8	10
						2500	762.0	235.0	106.8	10
37106▼	6 (84x25) [13.66 (84x.46)]	.080	2.03	.383	9.73	100 *	30.5	14.2	6.5	10
						250 **	76.2	33.0	15.0	10
						500 †	152.4	69.0	31.3	10
						2500	762.0	345.0	156.8	10
37104▼	4 (105x24) [21.53 (105x.51)]	.080	2.03	.432	10.97	100 *	30.5	18.7	8.5	10
						250 **	76.2	50.0	22.7	10
						500 †	152.4	98.5	44.8	10
						1000	304.8	196.0	89.1	10
37103▼	3 (133x24) [27.28 (133x.51)]	.080	2.03	.453	11.51	100 *	30.5	22.7	10.3	10
						250 **	76.2	61.8	28.1	10
37102▼	2 (163x24) [33.43 (163x.51)]	.080	2.03	.494	12.55	100 *	30.5	31.1	14.1	10
						250 **	76.2	72.3	32.8	10
						1000	304.8	286.0	130.0	10
37101▼	1 (210x24) [43.07 (210x.51)]	.095	2.41	.583	14.81	100 *	30.5	41.0	18.6	10
						250 **	76.2	95.0	43.2	10
						1000	304.8	376.0	170.9	10
37190▼	1/0 (262x24) [53.73 (262x.51)]	.095	2.41	.633	16.08	50	15.2	24.7	11.2	10
						100 *	30.5	48.3	22.0	10
						250 **	76.2	115.5	52.5	10
						500	152.4	223.5	101.6	10
37100▼	2/0 (504x26) [67.85 (504x.41)]	.095	2.41	.698	17.73	50	15.2	30.9	14.0	10
						100 *	30.5	58.8	26.7	10
						250 **	76.2	141.8	64.4	10
						500	152.4	279.5	127.0	10
37130▼	3/0 (630x26) [84.81 (630x.41)]	.095	2.41	.758	19.25	50	15.2	38.5	17.5	10
						250 **	76.2	174.0	79.1	10
						500	152.4	346.0	157.3	10
37140▼	4/0 (805x26) [108.37 (805x.41)]	.095	2.41	.849	21.57	50	15.2	44.6	20.2	10
						250 **	76.2	215.8	98.1	10
						500	152.4	449.0	203.7	10

▼Separator over conductor.
†May contain more than one piece. Length may vary ±10% from length shown.
††May contain more than one piece. Minimum length of any one piece is 200 ft.
*100 ft. put-ups are exact, one piece.
**200 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 50 ft.

Hypalon is a DuPont trademark.

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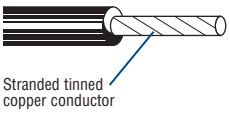
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EPDM
High-Temperature

UL AWM Style 3484
600V, 125°C
(CSA Type AWM)

Product Description

This series of EPDM (ethylene-propylene diene elastomer) will provide you with a lead wire which possesses excellent characteristics. The reduced wall thickness results in a UL and CSA Rating of 600V, 125°C. For additional technical information, see Technical Information pages at the end of this section.



600V, 125°C (UL & CSA)

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
UL AWM Style 3484 • CSA Type AWM										
37222	22 (7x30) [.36 (7x.25)]	.030	.76	.093	2.36	*	*	*	*	Special Order*
37220	20 (10x30) [.51 (10x.25)]	.030	.76	.102	2.59	*	*	*	*	Special Order*
37218	18 (16x30) [.81 (16x.25)]	.030	.76	.109	2.77	*	*	*	*	Special Order*
37216	16 (26x30) [1.32 (26x.25)]	.030	.76	.123	3.12	*	*	*	*	Special Order*
37214	14 (41x30) [2.08 (41x.25)]	.030	.76	.138	3.51	*	*	*	*	Special Order*
37212	12 (65x30) [3.29 (65x.25)]	.030	.76	.158	4.01	*	*	*	*	Special Order*

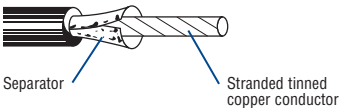
*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1**.

UL AWM Style 3499
7500V, 150°C
High-Voltage EPDM

Product Description

The insulation used for this High-Voltage wire is a chemically cross-linked ethylene-propylene diene elastomer with a separator for improved strippability. EPDM is naturally corona resistant and more heat resistant than many other rubber compounds and is able to take the longer bake cycles frequently needed for the big jobs. EPDM has superior weather resistance and low temperature pliability. EPDM is used in many high voltage applications. For additional technical information, see Technical Information pages at the end of this section.

Recommended maximum baking cycles:
24 hours @ 350°F (177°C) • 4 hours @ 375°F (190°C)



7500V, 150°C (UL)

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
UL AWM Style 3499										
37508	8 (84x27) [8.60 (84x.36)]	.125	3.18	.423	10.74	50 *	15.2	9.6	4.4	10
						500 ††	152.4	66.0	30.0	10
						1000 ††	304.8	130.0	59.1	10
37506	6 (84x25) [13.66 (84x.46)]	.125	3.18	.470	11.94	50 *	15.2	11.8	5.3	10
						500 ††	152.4	90.0	40.9	10
						1000 ††	304.8	176.0	80.0	10
37504	4 (105x24) [21.53 (105x.51)]	.125	3.18	.526	13.36	50 *	15.2	15.0	6.8	10
						500 ††	152.4	122.0	55.5	10
						1000 ††	304.8	240.0	109.1	10
37502	2 (163x24) [33.43 (163x.51)]	.125	3.18	.581	14.76	50 *	15.2	19.4	8.8	10
						500 ††	152.4	167.5	76.0	10
						1000 ††	304.8	333.0	151.4	10
37501	1 (210x24) [43.07 (210x.51)]	.125	3.18	.638	16.21	50 *	15.2	23.1	10.5	10
						500 ††	152.4	206.0	93.6	10
37590	1/0 (262x24) [53.73 (262x.51)]	.125	3.18	.688	17.48	50 *	15.2	27.3	12.4	10
						250 †	76.2	123.5	56.1	10
						500 ††	152.4	243.0	110.5	10
37500	2/0 (504x26) [67.85 (504x.41)]	.125	3.18	.753	19.13	50 *	15.2	34.2	15.5	10
						250 †	76.2	150.5	68.4	10
						500 ††	152.4	302.5	137.5	10
37530	3/0 (630x26) [84.81 (630x.41)]	.125	3.18	.813	20.65	50 *	15.2	40.5	18.4	10
						250 †	76.2	184.0	83.6	10
37540	4/0 (805x26) [108.37 (805x.41)]	.125	3.18	.909	23.09	50 *	15.2	48.7	22.1	10
						250 †	76.2	228.8	104.0	10
						500 ††	152.4	472.0	214.5	10

*50 ft. put-ups are one piece, exact.
†250 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 50 ft.
††May contain more than one piece. Length may vary ±10% from length shown.

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XL-Dur®

UL AWM Style 3199
300V, 105°C
(CSA Type CL1054)

Product Description

This insulation is a chemically cross-linked polyethylene applied in a single extrusion. This construction has excellent thermal aging characteristics, moisture resistance, and solvent resistance. It provides an economic alternative to Hypalon® where extreme flexibility is not required. The insulation resists deformation when subjected to momentary high temperatures in customer assembly processes.

Recommended maximum baking cycles:
24 hours @ 300°F (149°C) • 12 hours @ 325°F (163°C)
8 hours @ 350°F (177°C)



Stranded tinned copper conductor

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
300V, 105°C (UL & CSA)										
UL AWM Style 3199 • CSA Type CL1054										
35722	22 (7x30) [.36 (7x.25)]	.015	.38	.062	1.58	*	*	*	*	Special Order*
35720	20 (10x30) [.51 (10x.25)]	.015	.38	.073	1.85	*	*	*	*	Special Order*
35718	18 (19x30.5) [.83 (19x.24)]	.015	.38	.078	1.98	5000††	1524.0	40.0	18.2	1, 5, 6, 9, 10
35716	16 (19x29) [1.23 (19x.29)]	.015	.38	.091	2.31	*	*	*	*	Special Order*

*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1**.
††May contain more than one piece. Minimum length of any one piece is 200 ft.

UL AWM Style 3173, 3195, 3196
600V, 125°C
(CSA Type CL1251)

Product Description

This insulation is a chemically cross-linked polyethylene applied in a single extrusion. This construction has excellent thermal aging characteristics, moisture resistance, and solvent resistance. It provides an economic alternative to Hypalon where extreme flexibility is not required. The insulation resists deformation when subjected to momentary high temperatures in customer assembly processes. The 356-series of XL-DUR is recommended for Class 130(B) as motor leads.

Recommended maximum baking cycles:
24 hours @ 300°F (149°C) • 12 hours @ 325°F (163°C)
8 hours @ 350°F (177°C)

Stranded Conductor



Stranded tinned copper conductor

Separator Over Conductor



Separator

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 125°C (UL & CSA)										
UL AWM Style 3173 • CSA Type CL1251										
35622	22 (7x30) [.36 (7x.25)]	.030	.76	.093	2.36	5000††	1524.0	30.0	13.6	2, 9, 10
35620	20 (10x30) [.51 (10x.25)]	.030	.76	.101	2.57	500†	152.4	4.5	2.0	10
						5000††	1524.0	40.0	18.2	2, 6, 9, 10
35618	18 (16x30) [.81 (16x.25)]	.030	.76	.109	2.77	500†	152.4	5.5	2.5	2, 4, 5, 10, 13
						5000††	1524.0	50.0	22.7	1–10, 12, 13
35616	16 (26x30) [1.32 (26x.25)]	.030	.76	.122	3.10	500†	152.4	7.5	3.4	2, 4, 5, 9, 10
						5000††	1524.0	75.0	34.1	1–6, 8–10, B02
35614	14 (41x30) [2.08 (41x.25)]	.030	.76	.137	3.48	500†	152.4	10.5	4.8	10
						5000††	1524.0	100.0	45.4	2, 5, 6, 9, 10
35612	12 (65x30) [3.29 (65x.25)]	.030	.76	.153	3.89	500†	152.4	15.0	6.8	10
						3000††	914.4	87.0	39.5	9, 10
35610	10 (65x28) [5.23 (65x.32)]	.030	.76	.177	4.50	2000†	609.6	86.0	39.1	9, 10
UL AWM Style 3195 • CSA Type CL1251										
35608**	8 (133x29) [8.60 (133x.29)]	.045	1.14	.263	6.68	2000†	609.6	152.0	69.0	9, 10
UL AWM Style 3196 • CSA Type CL1251										
35606**	6 (133x27) [13.61 (133x.36)]	.060	1.52	.333	8.46	2000†	609.6	244.0	110.7	9, 10

**Separator over conductor.
†May contain more than one piece. Minimum length of any one piece is 50 ft.
††May contain more than one piece. Minimum length of any one piece is 200 ft.

Hypalon is a DuPont trademark.

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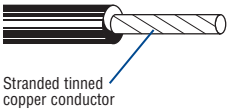
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

XL-Dur® (High-Temperature) and SIS (Switchboard) Wire

UL AWM Style 3436 and 3321 XL-Dur — 600V, 150°C
(CSA Type CL1251 and AWM)

Product Description

This series of chemically cross-linked polyethylene lead wire is available for higher temperature applications. It is UL Recognized to 600V, 150°C. As with other cross-linked lead wire, it has excellent heat aging characteristics in combination with excellent electrical and physical properties.



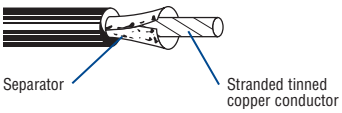
Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 150°C (UL & CSA)										
UL AWM Style 3436 and 3321 • CSA Type CL1251 and AWM										
35420	20 (10x30) [.51 (10x.25)]	.030	.76	.102	2.59	500†	152.4	4.5	2.0	9
35418	18 (16x30) [.81 (16x.25)]	.030	.76	.110	2.79	500†	152.4	5.5	2.5	9, 10
						5000†	1524.0	50.0	22.7	10
35416	16 (26x30) [1.32 (26x.25)]	.030	.76	.123	3.12	500†	152.4	7.5	3.4	9, 10
						5000†	1524.0	70.0	31.8	9, 10
35414	14 (41x30) [2.08 (41x.25)]	.030	.76	.138	3.51	500†	152.4	10.0	4.5	9, 10
						5000†	1524.0	95.0	43.2	9, 10
35412	12 (65x30) [3.29 (65x.25)]	.030	.76	.153	3.89	500†	152.4	14.5	6.6	9, 10
						5000†	1524.0	140.0	63.6	9, 10
35410	10 (65x28) [5.23 (65x.32)]	.030	.76	.177	4.50	500†	152.4	20.0	9.1	9, 10
						5000†	1524.0	210.0	95.5	9, 10

†Spools may contain more than one piece. Length may vary ±10% from length shown.

UL Type SIS — 600V, 90°C (UL)

Product Description

For wiring switchboards, panelboards, distribution boards, including instrument and control wiring in these applications. The wire is covered by a separator for improved strippability.



Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 90°C (UL)										
UL Type SIS • VW-1										
31014	14 (41x30) [2.08 (41x.25)]	.030	.76	.144	3.66	2500†	762.2	50.0	22.7	8
						5000††	1524.0	105.0	47.7	8
31012	12 (65x30) [3.29 (65x.25)]	.030	.76	.167	4.24	3000††	914.4	93.0	42.3	8
31010	10 (65x28) [5.23 (65x.32)]	.030	.76	.184	4.67	2500†	762.2	105.0	47.7	8
31008	8 (133x29) [8.60 (133x.29)]	.045	1.14	.268	6.75	2500†	762.2	190.0	86.4	8
UL Type SIS										
31014N	14 (41x30) [2.08 (41x.25)]	.030	.76	.144	3.66	2500†	762.2	52.5	23.9	8
31012N	12 (65x30) [3.29 (65x.25)]	.030	.76	.167	4.24	2500†	762.2	77.5	35.2	8
31010N	10 (65x28) [5.23 (65x.32)]	.030	.76	.184	4.67	2500†	762.2	107.5	48.9	8
31008N	8 (133x29) [8.60 (133x.29)]	.045	1.14	.268	6.75	2500†	762.2	192.5	87.3	8

†Spools may contain more than one piece. Length may vary ±10% from length shown.
††May contain more than one piece. Minimum length of any one piece is 200 ft.

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Hypalon®

UL AWM Style 3191
600V, 105°C
(CSA Type CL1053)

Product Description

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties. Hypalon is recommended for motor leads for Class 130(B) insulation systems. It may be considered as an alternative to Silicone rubber to withstand 155°C varnish baking temperatures, but is not suitable for operating temperatures above Class 130(B).

Recommended maximum baking cycles:
24 hours @ 300°F (149°C)



Stranded tinned copper conductor

UL AWM Style 3191, 3192, 3193
600V, 105°C
(CSA Type CL1052, 300V)

Product Description

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties. Hypalon is recommended for motor leads for Class 130(B) insulation systems. It may be considered as an alternative to Silicone rubber to withstand 155°C varnish baking temperatures, but is not suitable for operating temperatures above Class 130(B).

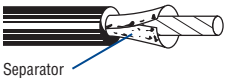
Recommended maximum baking cycles:
24 hours @ 300°F (149°C)

Stranded Conductor



Stranded tinned copper conductor

Separator Over Conductor



Separator

Hypalon is a DuPont trademark.

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 105°C (UL & CSA)										
UL AWM Style 3191 • CSA Type CL1053										
34418	18 (16x30) [.81 (16x.25)]	.045	1.14	.142	3.61	100†	30.5	2.3	1.0	2, 10
						500††	152.4	8.0	3.6	2, 4, 5, 8–10, 13
						5000▼	1524.0	75.0	34.1	2, 5, 8, 10
34416	16 (26x30) [1.32 (26x.25)]	.045	1.14	.155	3.94	100†	30.5	2.8	1.3	2, 10
						500††	152.4	10.5	4.8	2, 4, 5, 8–10, 13
						4000▼	1219.2	84.0	38.1	8, 10
34414	14 (41x30) [2.08 (41x.25)]	.045	1.14	.170	4.32	100†	30.5	3.7	1.7	2, 8, 10
						500††	152.4	14.0	6.4	2, 5, 8, 10
						4000▼	1219.2	108.0	49.1	8, 10
34412	12 (65x30) [3.29 (65x.25)]	.045	1.14	.190	4.83	100†	30.5	4.6	2.1	2, 8, 10
						500††	152.4	17.5	7.9	2, 5, 8, 10, 13
						3000▼	914.4	114.0	51.8	10

†100 ft. put-ups are one piece, exact. ††250 ft. and 500 ft. put-ups are exact, may contain 2 pieces max. Min. length 50 ft.
▼May contain more than one piece. Minimum length of any one piece is 200 ft.

600V, 105°C (UL) • **300V, 105°C** (CSA)

UL AWM Style 3191 • CSA Type CL1052**										
34410	10 (65x28) [5.23 (65x.32)]	.045	1.14	.209	5.31	100†	30.5	6.0	2.7	8, 10
						500††	152.4	24.5	11.2	8, 10
						2000▼	609.6	102.0	46.3	8, 10
UL AWM Style 3192 • CSA Type CL1052**										
34408*	8 (84x27) [8.60 (84x.36)]	.060	1.52	.290	7.37	100†	30.5	9.4	4.3	8, 10
						250††	76.2	24.8	11.2	8, 10
34406*	6 (84x25) [13.66 (84x.46)]	.060	1.52	.343	8.71	100†	30.5	13.7	6.2	8, 10
						250††	76.2	32.3	14.7	10
						1000▲	304.8	136.0	61.8	10
34404*	4 (105x24) [21.53 (105x.51)]	.060	1.52	.399	10.14	100†	30.5	19.1	8.7	8, 10
						250††	76.2	51.0	23.2	10
						500††	152.4	97.0	44.1	10
34403*	3 (133x24) [27.28 (133x.51)]	.060	1.52	.420	10.69	500††	152.4	118.0	53.6	10
34402*	2 (163x24) [33.43 (163x.51)]	.060	1.52	.454	11.53	100†	30.5	30.3	13.8	8, 10
						250††	76.2	70.8	32.2	10
						500††	152.4	139.0	63.2	10
UL AWM Style 3193 • CSA Type CL1052**										
34401*	1 (210x24) [43.07 (210x.51)]	.080	2.03	.557	14.15	50†	15.2	18.4	8.4	10
						100†	30.5	43.0	19.5	8, 10
						250††	76.2	97.0	44.1	10
34490*	1/0 (262x24) [53.73 (262x.51)]	.080	2.03	.607	15.42	50†	15.2	22.5	10.3	8, 10
						100†	30.5	48.9	22.2	10
						250††	76.2	114.8	52.2	10
34400*	2/0 (504x26) [67.85 (504x.41)]	.080	2.03	.668	16.97	50†	15.2	27.6	12.6	8
						100†	30.5	57.9	26.3	10
						250††	76.2	139.5	63.4	10
34430*	3/0 (630x26) [84.81 (630x.41)]	.080	2.03	.732	18.59	50†	15.2	38.5	17.5	10
						250††	76.2	175.8	79.9	10
34440*	4/0 (805x26) [108.37 (805x.41)]	.080	2.03	.819	20.80	50†	15.2	47.5	21.5	8, 10
						250††	76.2	215.0	97.7	10

*Separator over conductor. **CSA requires additional wall thickness in sizes 10 AWG and larger to meet CL1053 requirements.

†50 and 100 ft. put-ups are one piece, exact. ††250 and 500 ft. put-ups are exact, may contain 2 pieces max. Min. length 50 ft.
▲1000 ft. put-ups exact, may contain 3 pieces max. Minimum length of any one piece is 50 ft.
▼May contain more than one piece. Minimum length of any one piece is 200 ft.

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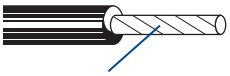
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Hypalon®

UL AWM Style 3190 300V, 105°C
(CSA Type CL1052)

Product Description

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties. Hypalon is recommended for motor leads for Class 130(B) insulation systems. It may be considered as an alternative to Silicone rubber to withstand 155°C varnish baking temperatures, but is not suitable for operating temperatures above Class 130(B).



Stranded tinned copper conductor

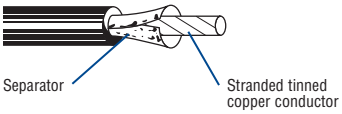
Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
300V, 105°C (UL & CSA)										
UL AWM Style 3190 • CSA Type CL1052										
34922	22 (7x30) [.36 (7x.25)]	.030	.76	.093	2.36	5000††	1524.0	35.0	15.9	10
34920	20 (10x30) [.51 (10x.25)]	.030	.76	.100	2.54	5000††	1524.0	45.0	20.5	8, 10
34918	18 (16x30) [.81 (16x.25)]	.030	.76	.110	2.79	500†	152.4	6.0	2.7	2, 4, 10
						5000††	1524.0	55.0	25.0	2, 10
34916	16 (26x30) [1.32 (26x.25)]	.030	.76	.123	3.12	500†	152.4	8.0	3.6	2, 9, 10
						5000††	1524.0	80.0	36.4	10
34914	14 (41x30) [2.08 (41x.25)]	.030	.76	.138	3.51	*	*	*	*	Special Order*

*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1**.
†May contain more than one piece. Minimum length of any one piece is 50 ft.
††May contain more than one piece. Minimum length of any one piece is 200 ft.

5000V High-Voltage Hypalon

Product Description

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties.



Separator

Stranded tinned copper conductor

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
5000V										
High-Voltage										
36108	8 (84x27) [8.60 (84x.36)]	.150	3.81	.480	12.19	50▲	15.2	7.9	3.6	10
						500◆	152.4	86.5	39.3	10
36106	6 (84x25) [13.66 (84x.46)]	.150	3.81	.532	13.51	50▲	15.2	10.5	4.8	10
						500◆	152.4	113.5	51.6	10
36104	4 (105x24) [21.53 (105x.51)]	.150	3.81	.588	14.94	50▲	15.2	13.9	6.3	10
						500◆	152.4	148.0	67.3	10
36102	2 (163x24) [33.43 (163x.51)]	.150	3.81	.643	16.33	50▲	15.2	22.4	10.2	10
						500◆	152.4	194.0	88.2	10
36101	1 (210x24) [43.07 (210x.51)]	.150	3.81	.700	17.78	50▲	15.2	26.4	12.0	10
						250◆	76.2	121.8	55.3	10
36190	1/0 (262x24) [53.73 (262x.51)]	.150	3.81	.750	19.05	50▲	15.2	32.4	14.7	10
						500◆	152.4	287.5	130.7	10
36100	2/0 (504x26) [67.85 (504x.41)]	.150	3.81	.815	20.70	50▲	15.2	37.5	17.0	10
36140	4/0 (805x26) [108.37 (805x.41)]	.150	3.81	.959	24.36	50▲	15.2	52.5	23.8	10
						250◆	76.2	247.5	112.5	10

▲50 ft. put-ups are one piece, exact.
◆250 ft. and 500 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 50 ft.

Hypalon is a DuPont trademark.

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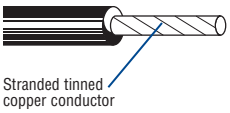
Neoprene

UL AWM Style 3044
300V, 90°C
(CSA Type CL902)

Product Description

Neoprene insulation has good heat aging characteristics and is an excellent low-cost motor lead wire. It may be considered for use in hazardous locations and is being used in explosion-proof motors recognized by UL. 12 AWG and smaller sizes are dual labeled UL and CSA.

Recommended maximum baking cycles:
24 hours @ 300°F (149°C) • 8 hours @ 325°F (163°C)
15 minutes @ 450°F (232°C)



Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
300V, 90°C (UL & CSA)										
UL AWM Style 3044 • CSA Type CL902										
31520	20 (10x30) [.51 (10x.25)]	.030	.76	.100	2.54	500†	152.4	5.0	2.3	10
						5000††	1524.0	40.0	18.2	10
31518	18 (16x30) [.81 (16x.25)]	.030	.76	.109	2.77	500†	152.4	6.0	2.7	2, 4, 5, 6, 9, 10
						2000††	609.6	22.0	10.0	1–3, 5, 6, 9, 10
						5000††	1524.0	55.0	25.0	1–6, 9, 10, B02
31516	16 (26x30) [1.32 (26x.25)]	.030	.76	.122	3.10	500†	152.4	8.0	3.6	2–6, 9, 10
						5000††	1524.0	75.0	34.1	2, 4, 5, 9, 10

†May contain more than one piece. Minimum length of any one piece is 50 ft.
††May contain more than one piece. Minimum length of any one piece is 200 ft.

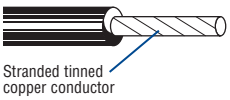
UL AWM Style 3046, 3048, 3049
600V, 90°C
(CSA Type CL903 available as shown)

Product Description

Neoprene insulation has good heat aging characteristics and is an excellent low-cost motor lead wire. It may be considered for use in hazardous locations and is being used in explosion-proof motors recognized by UL. 12 AWG and smaller sizes are dual labeled UL and CSA.

Recommended maximum baking cycles:
24 hours @ 300°F (149°C) • 8 hours @ 325°F (163°C)
15 minutes @ 450°F (232°C)

Stranded Conductor



Separator Over Conductor



Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 90°C (UL)										
UL AWM Style 3046 • CSA Type CL903										
32518	18 (16x30) [.81 (16x.25)]	.045	1.14	.142	3.61	500†	152.4	8.5	3.9	9, 10
						5000††	1524.0	80.0	36.4	9, 10
32516	16 (26x30) [1.32 (26x.25)]	.045	1.14	.155	3.94	500†	152.4	11.0	5.0	2–6, 9, 10
						5000††	1524.0	105.0	47.7	10
31514	14 (41x30) [2.08 (41x.25)]	.045	1.14	.169	4.29	500†	152.4	13.5	6.1	2, 4, 5, 9, 10
						4000††	1219.2	108.0	49.1	2, 4, 5, 9, 10
31512	12 (65x30) [3.29 (65x.25)]	.045	1.14	.190	4.83	250†	76.2	10.0	4.5	10
						3000††	914.4	117.0	53.2	10
UL AWM Style 3046**										
31510	10 (65x28) [5.29 (65x.32)]	.045	1.14	.209	5.31	250†	76.2	13.0	5.9	10
						2000††	609.6	106.0	48.2	10
UL AWM Style 3048**										
31508*	8 (84x27) [8.60 (84x.36)]	.060	1.52	.285	7.24	500†	152.4	47.5	21.6	2, 10
31506*	6 (84x25) [13.66 (84x.46)]	.060	1.52	.343	8.71	500†	152.4	66.5	30.2	10
31504*	4 (105x24) [21.53 (105x.51)]	.060	1.52	.399	10.14	250†	76.2	52.0	23.6	10
31502*	2 (163x24) [33.43 (163x.51)]	.060	1.52	.454	11.53	250†	76.2	69.3	31.4	10
UL AWM Style 3049**										
31501*	1 (210x24) [43.07 (210x.51)]	.080	2.03	.557	14.15	250†	76.2	98.5	44.8	10
31590*	1/0 (262x24) [53.73 (262x.51)]	.080	2.03	.607	15.42	250†	76.2	116.8	53.1	10
31500*	2/0 (504x26) [67.85 (504x.41)]	.080	2.03	.668	16.97	250†	76.2	141.5	64.3	10

*Separator over conductor.
**CSA requires additional wall thickness in sizes 10 AWG and larger to meet CL903 requirements.

†May contain more than one piece. Minimum length of any one piece is 50 ft.
††May contain more than one piece. Minimum length of any one piece is 200 ft.

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Silicone Rubber
Braidless

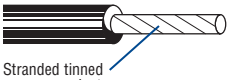
UL AWM Style 3212, 3213, 3214 600V, 150°C
(CSA Type AWM)

Product Description

The 333 series of braidless Silicone 150°C lead wire features easy and clean stripping without the problems associated with glass braid wire. It has excellent physical and mechanical strength properties. Braidless Silicone lead wire is also recommended for consideration in applications requiring Class 155(F) or Class 180(H) materials. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. It is recommended that varnish compatibility be checked before production. Some rigid varnishes may cause cracking when the wire is severely bent.

Recommended maximum baking cycles:
24 hours @ 410°F (210°C)

Stranded Conductor



Stranded tinned copper conductor

Separator Over Conductor



Separator

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 150°C (UL & CSA)										
UL AWM Style 3212 • CSA Type AWM										
33322	22 (7x30) [.36 (7x.25)]	.045	1.14	.125	3.18	*	*	*	*	Special Order*
33320	20 (10x30) [.51 (10x.25)]	.045	1.14	.132	3.53	*	*	*	*	Special Order*
33318	18 (16x30) [.81 (16x.25)]	.045	1.14	.142	3.61	500▲	152.4	7.0	3.2	9, 10
33316	16 (26x30) [1.32 (26x.25)]	.045	1.14	.155	3.94	500▲	152.4	9.5	4.3	9, 10
33314	14 (41x30) [2.08 (41x.25)]	.045	1.14	.170	4.32	500▲	152.4	12.0	5.5	9, 10
33312	12 (65x30) [3.29 (65x.25)]	.045	1.14	.190	4.83	500▲	152.4	16.5	7.5	9, 10
33310†	10 (65x28) [5.23 (65x.32)]	.045	1.14	.209	5.31	500▲	152.4	22.5	10.3	10
UL AWM Style 3213 • CSA Type AWM										
33308†	8 (84x27) [8.60 (84x.36)]	.060	1.52	.283	7.19	500	152.4	38.5	17.6	10
33306†	6 (84x25) [13.66 (84x.46)]	.060	1.52	.334	8.48	500▲	152.4	61.5	28.0	10
33304†	4 (105x24) [21.53 (105x.51)]	.060	1.52	.390	9.91	250◆	76.2	48.8	22.2	10
33302†	2 (163x24) [33.43 (163x.51)]	.060	1.52	.457	11.61	250◆	76.2	67.0	30.4	10
UL AWM Style 3214 • CSA Type AWM										
33390†	1/0 (262x24) [53.73 (262x.51)]	.080	2.03	.594	15.09	250◆	76.2	108.3	49.2	10

*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1**.
†Separator over conductor.

◆250 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 50 ft.
▲May contain more than one piece. Length may vary ±10% from length shown.

UL AWM Style 3135 600V, 200°C

Product Description

The 334 Series is for use only in totally enclosed systems.

Recommended maximum baking cycles:
24 hours @ 410°F (210°C)



Stranded tinned copper conductor

600V, 200°C (UL)

Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
UL AWM Style 3135										
33418	18 (7x26) [.94 (7x.41)]	.030	.76	.111	2.82	*	*	*	*	Special Order*
33416	16 (7x24) [1.44 (7x.51)]	.030	.76	.123	3.12	*	*	*	*	Special Order*
33414	14 (7x22) [2.27 (7x.64)]	.030	.76	.139	3.53	*	*	*	*	Special Order*

*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1**.

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Silicone Rubber
Glass Braid

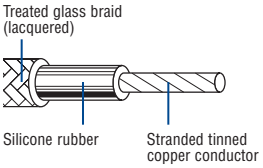
UL AWM Style 3071, 3074, 3075, 3125 and 3126
600V, 200°C
(CSA Type SEW-2)
VW-1

Product Description

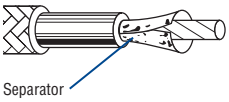
UL recognizes finer strands on the 150°C rated wire. The Silicone insulation strips clean and easy. The glass braid provides additional abrasion resistance and is treated to prevent fraying. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. These wires can be used with Class 130(B), 155(F) or 180(H) insulation systems.

Recommended maximum baking cycles:
24 hours @ 410°F (210°C)

Stranded Conductor



Separator Over Conductor



Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 200°C (UL & CSA)										
UL AWM Style 3071 • CSA Type SEW-2										
32418	18 (7x26) [.94 (7x.41)]	.030	.76	.133	3.38	500†	152.4	6.5	3.4	9, 10
						6000††	1829.3	78.0	35.5	9, 10
32416	16 (7x24) [1.44 (7x.51)]	.030	.76	.145	3.68	500†	152.4	9.5	4.3	9, 10
						6000††	1829.3	108.0	49.1	10
32414	14 (7x22) [2.27 (7x.64)]	.030	.76	.167	4.24	500†	152.4	12.0	5.5	9, 10
						4000††	1219.2	100.0	45.5	9, 10
UL AWM Style 3074 • CSA Type SEW-2										
32412	12 (19x24.5) [3.30 (19x.47)]	.030	.76	.190	4.83	500†	152.4	17.5	8.0	9, 10
UL AWM Style 3075 • CSA Type SEW-2										
32410	10 (19x22.5) [5.27 (19x.59)]	.045	1.14	.238	6.05	500†	152.4	26.5	12.1	9, 10
UL AWM Style 3125 • CSA Type SEW-2										
30808*	8 (54x25) [8.78 (54x.46)]	.060	1.52	.313	7.95	100▲	30.5	9.8	4.5	9, 10
						500†	152.4	48.0	21.8	9, 10
						3000†	914.4	285.0	129.5	9, 10
30806*†	6 (84x25) [13.66 (84x.46)]	.060	1.52	.368	9.35	100▲	30.5	14.2	6.5	9, 10
						500†	152.4	69.5	31.5	9, 10
						2000†	609.6	284.0	129.1	9, 10
30804*	4 (105x24) [21.53 (105x.51)]	.060	1.52	.424	10.77	250◆	76.2	50.5	22.9	9, 10
30802*	2 (163x24) [33.43 (163x.51)]	.060	1.52	.496	12.60	250◆	76.2	72.8	33.0	9, 10
UL AWM Style 3126 • CSA Type SEW-2										
30801*	1 (210x24) [43.07 (210x.51)]	.080	2.03	.622	15.80	100▲	30.5	43.2	19.6	9, 10
						250◆	76.2	100.5	45.7	9, 10
30890*	1/0 (262x24) [53.73 (262x.51)]	.080	2.03	.670	17.02	100▲	30.5	51.5	23.4	9, 10
						250◆	76.2	123.5	56.1	9, 10
30800*	2/0 (504x26) [67.85 (504x.41)]	.080	2.03	.727	18.47	50▲	15.2	31.1	14.1	9
						100▲	30.5	60.5	27.5	9
						250◆	76.2	146.0	66.4	9
30830*	3/0 (630x26) [84.81 (630x.41)]	.080	2.03	.795	20.19	250◆	76.2	181.3	82.7	9
30840*	4/0 (266x21) [109.51 (266x.72)]	.080	2.03	.779	19.79	50▲	15.2	47.9	21.8	9
						250◆	76.2	221.0	100.8	9

*Separator over conductor.

†May contain more than one piece. Length may vary ±10% from length shown.
††May contain more than one piece. Minimum length of any one piece is 200 ft.

▲50 ft. and 100 ft. put-ups are one piece, exact.
◆250 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 50 ft.

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Silicone Rubber

Glass Braid and Mercury Switch Wire

Glass Braid
UL AWM Style 3069, 3070, 3101
600V, 150°C

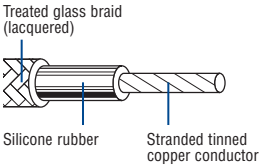
(CSA Type SEWF-2)

VW-1

Product Description

UL recognizes finer strands on the 150°C rated wire. The Silicone insulation strips clean and easy. The glass braid provides additional abrasion resistance and is treated to prevent fraying. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. These wires can be used with Class 130(B), 155(F) or 180(H) insulation systems.

Recommended maximum baking cycles:
24 hours @ 410°F (210°C)



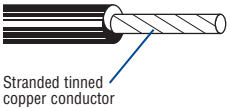
Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 150°C (UL & CSA)										
UL AWM Style 3069 • CSA Type SEWF-2										
30820	20 (10x30) [.51 (10x.25)]	.030	.76	.122	3.10	500†	152.4	5.0	2.3	9, 10
UL AWM Style 3070 • CSA Type SEWF-2										
30818	18 (16x30) [.81 (16x.25)]	.030	.76	.132	3.35	100 *	30.5	2.0	.9	9, 10
						500†	152.4	6.5	2.9	9, 10
30816	16 (26x30) [1.32 (26x.25)]	.030	.76	.145	3.68	500†	152.4	9.0	4.1	9, 10
30814	14 (41x30) [2.08 (41x.25)]	.030	.76	.164	4.17	500†	152.4	12.0	5.5	9, 10
30812	12 (65x30) [3.29 (65x.25)]	.030	.76	.186	4.72	500†	152.4	17.0	7.7	9, 10
UL AWM Style 3101 • CSA Type SEWF-2										
30810	10 (65x28) [5.23 (65x.32)]	.045	1.14	.239	6.07	100 *	30.5	5.8	2.6	9, 10
						500†	152.4	25.0	11.4	9, 10

*100 ft. put-ups are one piece, exact.
†May contain more than one piece. Length may vary ±10% from length shown.

Mercury Switch
UL AWM Style 3123
600V, 150°C

Product Description

Suitable for mercury switches when protected against mechanical abuse. This wire has a tough, flexible Silicone insulation that remains flexible over a wide temperature range: +150°C to -55°C.



Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Stock Colors (See Color Codes Chart on Page 3.29)
600V, 150°C (UL)										
UL AWM Style 3123										
34020	20 (105x40) [.52 (105x.08)]	.030	.76	.110	2.79	2000††	609.6	16.0	7.3	8
34017	17 (210x40) [1.03 (210x.08)]	.030	.76	.118	3.00	2000††	609.6	24.0	10.9	8

††May contain more than one piece. Minimum length of any one piece is 200 ft.

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High-Voltage Leads

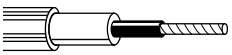
22 AWG Stranded Conductor (7x30)

Product Description

Tinned copper, conductive polyethylene (Korona-Guard) over inner conductor provides uniform distribution of voltage stresses, polyethylene insulation. PVC jacket in Red (8868) or Black (8869).

Suggested Working Voltage: 24,000 DC (8868)
17,000 DC (8869)

Breakdown Voltage: 48,000 DC (8868)
35,000 DC (8869)



Part No.	Insulation Thickness		Jacket Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
	Inch	mm	Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
22 AWG Stranded Conductor (7x30)											
80°C											
8868	.044	1.12	.015	.38	.150	3.81	100	30.5	1.9	.9	2
							U-500	U-152.4	6.0	2.7	2
							500	152.4	6.0	2.7	2
8869	.027	.69	.015	.38	.120	3.05	100	30.5	1.6	.7	10
							500	152.4	4.5	2.0	10

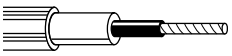
20 AWG Stranded Conductor (7x28)
UL AWM Style 3239 (80°C)
VW-1

Product Description

Tinned copper, conductive polyethylene (Korona-Guard) over inner conductor provides uniform distribution of voltage stresses, polyethylene insulation. Red PVC jacket.

Suggested Working Voltage: 30,000 DC

Breakdown Voltage: 60,000 DC



20 AWG Stranded Conductor (7x28)											
UL AWM Style 3239 • 80°C											
9867	.046	1.17	.028	.71	.191	4.85	100	30.5	3.0	1.4	2
							500	152.4	10.5	4.8	2

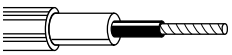
18 AWG Stranded Conductor (16x30)

Product Description

Tinned copper, conductive polyethylene (Korona-Guard) over inner conductor provides uniform distribution of voltage stresses, polyethylene insulation. Red PVC jacket.

Suggested Working Voltage: 40,000 DC

Breakdown Voltage: 80,000 DC



18 AWG Stranded Conductor (16x30)											
80°C											
8866	.057	1.45	.015	.38	.208	5.28	100	30.5	3.0	1.4	2
							U-500	U-152.4	11.5	5.2	2
							500	152.4	10.0	4.6	2

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Test Prod Wire

18 AWG Rubber Insulation
5000V, 90°C

Product Description

Tinned copper, rubber insulation.

Suggested Working Voltage: 5000V

Breakdown Voltage: 20,000V



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
18 AWG Rubber Insulation										
5000V, 90°C										
8899	18 (65x36)	.045	1.14	.144	3.66	10	3.0	.2	.1	2, 10
						14	4.3	.5	.2	2&10*
						25	7.6	.6	.3	2, 4, 5, 6, 8, 9, 10
						100	30.5	2.3	1.0	2, 4, 5, 6, 8, 9, 10
						U-500	U-152.4	8.5	3.9	2, 10
						500	152.4	8.5	3.9	2, 4, 5, 6, 8, 9, 10
						U-1000	U-304.8	16.0	7.3	2, 10
						1000	304.8	15.0	6.8	2, 10

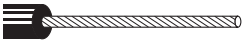
*Includes both Red & Black cable in one put-up.

18 AWG PVC Insulation
UL AWM Style 1855 (5000V, 80°C)

Product Description

Tinned copper, PVC insulation. Use test probe leads for electrical and electronic measuring for test equipment.

Suggested Working Voltage: 5000V



18 AWG PVC Insulation (UL)										
UL AWM Style 1855 • 5000V, 80°C										
9899	18 (65x36)	.048	1.22	.144	3.66	100	30.5	2.2	1.0	2, 10
						500	152.4	7.5	3.4	2, 5, 9, 10
						1000	304.8	13.0	5.9	2, 10

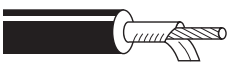
18 AWG Rubber Insulation
5000V, 80°C

Product Description

Tinned copper, separator, rubber insulation. Manufactured for MIL-W-13169B.

Suggested Working Voltage: 5000V

Breakdown Voltage: 20,000V



18 AWG Rubber Insulation										
5000V, 80°C										
8897	18 (65x36)	.045	1.14	.144	3.66	U-500	U-152.4	8.5	3.9	2, 10
						500	152.4	8.5	3.9	2, 10

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Test Prod Wire and Gas Tube Sign and Ignition Cable

18 AWG Rubber Insulation
10,000V, 90°C

Product Description

Tinned copper, rubber insulation.

Suggested Working Voltage: 10,000V

Breakdown Voltage: 29,000V



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
18 AWG Rubber Insulation										
10,000V, 90°C										
8898	18 (65x36)	.088	2.24	.229	5.82	25	7.6	1.7	.8	2, 10
						100	30.5	3.9	1.8	2, 10
						500	152.4	16.0	7.3	2, 10

24 AWG Rubber Insulation
1000V, 90°C • Miniature

Product Description

Tinned copper, separator, rubber insulation.

Suggested Working Voltage: 1000V

Breakdown Voltage: 10,000V

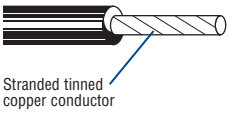


Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
24 AWG Rubber Insulation										
1000V, 90°C • Miniature										
8890	24 (45x40)	.019	.48	.066	1.68	25	7.6	.1	.05	2, 10
						100	30.5	.4	.20	2, 10
						500	152.4	2.5	1.10	2, 10

Gas Tube Sign and Ignition UL GTO-10 — 10kV, 105°C
(CSA Type GTO-10 — 10kV)

Product Description

GTO cables are single conductors for use with gas-tube systems for signs, outline lighting or interior lights and for use with oil-burning equipment in accordance with the National Electrical Code. GTO-10 lead wire has an 18 AWG stranded tinned copper conductor and is insulated with a chemically cross-linked ethylene-propylene diene elastomer. Unshielded, it is available with either a flat black (color code 10) or dark gray (color code 876) exterior.



Part No.	AWG (stranding) [sq.mm] (stranding in mm)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
10kV, 105°C (UL) • **10kV** (CSA)										
UL and CSA Type GTO-10										
39018	18 (19x30) [.96 (19x.25)]	.100	2.54	.247	6.27	500†	152.4	16.5	7.5	10, 876
						1000††	304.8	37.0	16.8	10, 876
						1500††	457.3	54.0	24.5	10

†May contain more than one piece. Minimum length of any one piece is 50 ft.
††May contain more than one piece. Minimum length of any one piece is 200 ft.

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Magnet Wire

Class 200
One Pound Spool

Product Description

Belden® high-temperature Class 200 Magnet Wire is dual coated. Its base coat is a cross-linked, modified polyester. Its top coat is an amide-imide polymer. Rated for 200°C usage, Belden Class 200 Magnet Wire has exceptional ability to resist solvents and abuse in difficult windings.



Part No.	AWG	Approximate Length		Standard Unit Weight		Turns per Linear Inch	Turns per Square Inch
		Ft.	m	Lbs.	kg		
Class 200							
J-W-1177/14 • MW 35-C (Heavy) or MW 74-C (Heavy)							
8073	14	80	24.4	1.1	.5	14.9	222
8074	16	126	38.4	1.1	.5	18.6	346
8075	18	199	60.7	1.1	.5	23.2	538
8076	20	315	96.0	1.1	.5	28.9	835
8077	22	501	152.7	1.1	.5	36.0	1296
8078	24	793	241.7	1.1	.5	44.7	1998
8079	26	1260	384.1	1.1	.5	55.7	3102
8080	28	1990	606.6	1.1	.5	69.4	4816
8081	30	3140	957.1	1.1	.5	86.2	7430
8083	34	7860	2395.8	1.1	.5	133.1	17716
8085*	38	19300	5882.7	1.1	.5	206.0	42436

*8085 is a single coat of modified polyester insulation and made to NEMA MW 74-C (Heavy).

Single Beldsol Solderable
Half Pound Spool

Product Description

Beldsol Magnet Wire is a dual insulated Magnet Wire that combines the excellent dielectric characteristics of polyurethane and the known toughness and solvent resistance of a nylon overcoat. This wire is rated by IEEE tests for 270°F usage and will solder without insulation removal at 750°F.



Single Beldsol Solderable							
J-W-1177/9 • MW 28-C (Single)							
8049	18	100	30.5	.5	.2	23.9	571
8050	20	160	48.8	.5	.2	29.9	894
8051	22	254	77.4	.5	.2	37.5	1406
8052	24	404	123.1	.5	.2	46.9	2200
8053	26	645	196.6	.5	.2	59.0	3481
8054	28	1020	310.9	.5	.2	73.8	5446
8055	30	1615	492.3	.5	.2	91.7	8409
8056	32	2515	766.6	.5	.2	114.0	12996
8057	34	4060	1237.5	.5	.2	144.0	20736
8058	36	6400	1950.7	.5	.2	180.0	32400

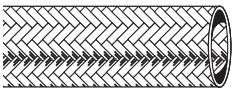
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Shielding and Bonding Cable and Direct Burial Cable

Roadway Loop Cables

Braided Wire



Part No.	Approx. AWG (stranding)	Standard Lengths		Standard Unit Weight		Recommended Current (Amps)	Approximate Circular Area		Nominal ID Tubular	
		Ft.	m	Lbs.	kg		CMA	mm^2	Inch	mm
Braided Wire										
8660	14.3 (96x34) tinned	50	15.2	.7	.3	27.0	3800	1.92	.125	3.18
		250	76.2	3.8	1.7					
8668	13.3 (120x34) tinned	50	15.2	1.1	.5	36.0	4800	2.43	.172	4.37
		250	76.2	5.0	2.3					
8663	11.9 (168x34) tinned	50	15.2	2.1	.9	38.0	6700	3.40	.219	5.56
		250	76.2	6.8	3.1					
8661	11.3 (192x34) tinned	50	15.2	2.2	1.0	46.0	7600	3.85	.203	5.16
		250 *	76.2	7.3	3.3					
8669	8.9 (336x34) tinned	50	15.2	3.4	1.5	62.0	13300	6.74	.500	12.70
		250 *	76.2	11.5	5.2					
8662	6.6 (576x34) tinned	50	15.2	4.7	2.1	80.0	22900	11.60	.781	19.84
		250 *	76.2	20.0	9.1					
8670	3.4 (480x30) tinned	10	3.0	1.9	.9	145.0	48000	24.32	.750 (Flat Width)	19.05
		50	15.2	9.0	4.1					
		250 *	76.2	41.3	18.8					

Note: Dimensions shown are approximate, due to pliable nature of braided cables.
*May contain more than one piece. Minimum length of any one piece is 25 ft.

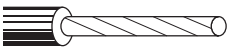
Direct Burial

14 AWG Stranded Conductor (104x34)

Product Description

Tinned copper conductor. Black high-density polyethylene insulation.

Suggested Working Voltage: 600V



Part No.	Insulation Thickness		Jacket Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors
	Inch	mm	Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
14 AWG Stranded Conductor (104x34)											
80°C											
9438	.032	.81	—	—	.139	3.53	1000	304.8	18.0	8.2	Black

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Bus Bar, Antenna and Aluminum Ground Wire

Bus Bar Wire

Product Description

Made in accordance with the performance requirements of Federal Spec. QQ-W-343G. Solid tinned copper. Belden® can certify upon special request compliance to the performance requirements of QQ-W-343S_S1T.



Part No.	AWG	Standard Lengths		Standard Unit Weight		Nominal OD		Circular Area	
		Ft.	m	Lbs.	kg	Inch	mm	CMA	mm²
Bus Bar Wire									
8025	30	100	30.5	.1	.05	.010	.26	102	.05
		1000	304.8	1.0	.50				
8024	28	100	30.5	.1	.05	.013	.33	164	.08
		1000	304.8	1.0	.50				
8023	26	100	30.5	.1	.05	.016	.41	262	.13
		1000	304.8	1.0	.50				
8022	24	100	30.5	.2	.10	.021	.52	424	.22
		1000	304.8	1.0	.50				
8021	22	100	30.5	.2	.10	.026	.65	650	.33
		1000	304.8	2.0	.90				
8020	20	100	30.5	.4	.20	.033	.83	1056	.54
		1000	304.8	3.0	1.40				
8019	18	100	30.5	.5	.20	.041	1.03	1648	.84
		1000	304.8	6.0	2.70				
8013	16	100	30.5	.8	.40	.052	1.31	2673	1.35
		1000	304.8	9.0	4.10				
8012	14	100	30.5	1.5	.70	.065	1.66	4251	2.15
		1000	304.8	14.0	6.40				
8011	12	100	30.5	2.3	1.00	.083	2.11	6872	3.48

Antenna Wire

Product Description

Stranded bare copper-covered steel.



Part No.	AWG	Standard Package Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
Antenna Wire							
8002	16 (7x24)	100	30.5	.8	.4	.060	1.52
8000	14 (7x22)	100	30.5	1.3	.6	.076	1.93
		1000	304.8	13.0	5.9		

Aluminum Ground Wire

Product Description

8 AWG solid, soft annealed aluminum. Packaged in ten 50-foot connected coils or spools of 500 feet. Spools are marked every 100 feet for easy measuring.



Aluminum Ground Wire							
8018	8 (solid)	50	15.2	.9	.4	.128	3.25
		500	152.4	8.5	3.9		

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Technical Information

Conductor and Insulation Materials

The technical information provided in this section has been expanded to include additional graphs and supplementary data as an aid in specifying the hook-up and lead wire best suited to the needs of a particular application. If you require additional technical information, contact Belden Technical Support at **1-800-BELDEN-1**.

The tables on the following pages are offered as a guide to assist users in selecting the correct lead wire for their application.

Conductors

Uni-Strand®

Uni-Strand tinned copper conductor. In this type of construction, the bare copper wires are stranded, then tinned to coat the strands and also to fill in the interstices between strands. This allows for easier wire stripping with no re-twisting operation.

Insulation Materials

PVC

Vinyl plastic insulation is fast stripping, resists oil, solvents, and ozone. The colors are bright and remain distinct after processing. Applications include motors, transformers, fluorescent ballasts and fixtures, switch-boards, panels, controls, rectifiers and electronic circuits. Meets VW-1 Vertical Wire Flame Test in many cases.

Teflon®

Teflon is a fluorinated thermoplastic with outstanding thermal, physical, and electrical properties. Teflon is generally restricted to applications requiring its special characteristics because its basic resin and processing costs are relatively high.

Belden Teflon wire products are highly recommended for miniature cable applications because of their superior thermal and electrical properties. Teflon is especially suitable for internal wiring-soldering applications where insulation melt back is a specific problem. Belden wiring products insulated with Teflon are outstanding in their resistance to oil, oxidation, heat, sunlight and flame; and also in their ability to remain flexible at low temperatures. They have excellent resistance to ozone, water, alcohol, gasoline, acids, alkalis, aromatic hydrocarbons and solvents.

EPDM

EPDM (ethylene-propylene diene elastomer) is a chemically cross-linked elastomer with excellent flexibility at high and low temperatures (+150°C to -60°C). It has good insulation and dielectric strength, as well as excellent abrasion resistance and mechanical properties. EPDM also has better cut-through resistance than Silicone rubber, which it replaces in some applications.

EPDM is compatible with most varnishes. After the dip and bake cycle, however, the varnish tends to adhere to the insulation because EPDM, unlike some rubber insulations, does not exude oils or waxes. As the lead wires are pulled apart for termination or flexed, the varnish cracks, sometimes tearing the insulation.

To help this problem, a stearic solution is applied to the lead wire during the manufacturing process. However, many varnishes may still bond to the insulation unless other special coatings are applied. (Other slip coats are available at additional cost.) **Because most cleaning processes will remove these coatings from the EPDM lead wire, cleaning EPDM lead wire before using in the process is not recommended.**

Due to the above, it is recommended that the compatibility between the individual lead wire size, the bake/varnish process and varnish used always be checked; and if possible, do not allow any varnish to extend beyond a point where the lead wire will be flexed or bent.

XL-Dur®

XL-Dur is a lead wire insulation utilizing thermoset, chemically cross-linked poly-ethylene. Because of its excellent physical and electrical properties, XL-Dur is highly desirable for a wide variety of applications.

Hypalon®

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties.

Neoprene

Neoprene insulation has good heat aging characteristics and is an excellent low-cost motor lead wire. It may be considered for use in hazardous locations and is being used in explosion-proof motors recognized by UL.

Silicone Rubber

Braidless Silicone lead wire features easy and clean stripping without the problems associated with glass braid lead wire. It has excellent physical and mechanical strength properties.

Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic, and electronic devices. It is recommended that varnish compatibility be checked before production. Some rigid varnishes may cause cracking when the wire is severely bent.

Silicone Rubber — Glass Braid

The Silicone insulation strips clean and easy. The glass braid provides additional abrasion resistance and is treated to prevent fraying.

Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices.

Hypalon and Teflon are DuPont trademarks.

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Technical Information

Insulation Characteristics and Color Codes

Table 1: Insulation Characteristics

Insulation	Temperature Rating	UL Voltage Rating (Volts)	Oil Resistance	Ozone Resistance	Abrasion	Flame Resistance
Neoprene	90°C	300/600	Good	Good	Good	Good
PVC	80°C	300	Good–Excellent	Good–Excellent	Good	Excellent
	105°C	600	Good–Excellent	Good–Excellent	Good	Excellent
Hypalon®	105°C	300/600	Good	Excellent	Good	Good
XL-Dur® Cross-Linked Polyethylene	105°C	300	Good	Good	Excellent	Fair–Good
	125°C	600	Good	Good	Excellent	Fair–Good
	150°C	600	Good	Good	Excellent	Fair–Good
EPDM	125°C	600	Fair–Poor	Good	Good	Fair
	150°C	600	Fair–Poor	Good	Good	Fair
Silicone Rubber	150°C	300	Fair	Good	Poor	Good
	200°C	600	Fair	Good	Poor	Good
Silicone Rubber Glass Braid	150°C	600	Fair	Excellent	Excellent	Good
	200°C	600	Fair	Excellent	Excellent	Good
Teflon®	150°C	300	Excellent	Excellent	Excellent	Excellent
	200°C	300	Excellent	Excellent	Excellent	Excellent
	260°C	300	Excellent	Excellent	Excellent	Excellent

Table 2: Lead Wire Color Code Chart

Color No.	Color Combination
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Light Blue
7	Purple
8	Gray
9	White
10	Black
11	Tan
12	Pink

Color No.	Color Combination
13	Dark Blue
14	White/Black
15	White/Red
16	White/Green
17	White/Yellow
18	White/Blue
19	White/Brown
20	White/Orange
21	White/Gray
22	White/Purple
23	White/Black/Red
24	White/Black/Green

Color No.	Color Combination
25	White/Black/Yellow
26	White/Black/Blue
27	White/Black/Brown
28	White/Black/Orange
29	White/Black/Gray
30	White/Black/Purple
189	Green/Yellow
620	Green/min. 30% Yellow
876	Nickel Gray
B02	Purple

Non-Stock Colors: Non-stock colors and stripes of catalog items are available in minimum quantities. Price and delivery information is available upon request. Orders must be in multiples of standard packages.

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Technical Information

Current Carrying Capacity

Table 3: Lead Wire Current Carrying Capacity

AWG	90°C Neoprene, SIS	105°C Vinyl, Hypalon®	125°C XL-Dur,® Hermetic	150°C EPDM, XL-Dur, Silicone	200°C Silicone
22	10	11	12	14	16
20	13	14	15	18	21
18	18	20	22	24	28
16	24	26	28	31	35
14	35	39	42	46	54
12	40	51	55	60	68
10	55	67	72	80	90
8	80	90	97	106	124
6	105	121	131	155	165
4	140	160	172	109	220
3	165	180	194	214	252
2	190	215	232	255	293
1	220	247	266	293	344
1/0	260	286	309	339	399
2/0	300	329	355	390	467
3/0	350	380	410	451	546
4/0	405	446	481	529	629

Values (amperes) shown in this table are maximum for a single conductor in free air with an assumed ambient room temperature of 30°C (86°F).

Table 4: Current Carrying Capacity of 2 or 3 Conductors

AWG	90°C Neoprene, SIS	105°C Vinyl, Hypalon	125°C XL-Dur, Hermetic	150°C EPDM, XL-Dur, Silicone	200°C Silicone
22	6	7	8	9	10
20	8	9	10	13	15
18	14	15	16	17	20
16	18	19	20	22	25
14	25	29	31	34	36
12	30	36	39	43	45
10	40	46	50	55	60
8	55	64	69	76	83
6	75	81	87	96	110
4	95	109	118	120	125
3	110	129	139	143	152
2	130	143	154	160	171
1	150	168	181	186	197
1/0	170	193	208	215	229
2/0	195	229	247	251	260
3/0	225	263	284	288	297
4/0	260	301	325	332	346

Current carrying capacity of not more than three (3) conductors in a raceway, conduit or cable. The values (amperes) shown in this table are maximum at an assumed ambient room temperature of 30°C (86°F).

Hypalon is a trademark of DuPont.

How to Use

The choice of an appropriate conductor, with respect to current carrying capacity, usually depends on one or more factors which vary according to application. These factors include the temperature in which the lead wire operates, temperature rise of equipment, limitations of insulation, voltage drop, and location of wires as in free air or enclosed, such as formed by a compartment, tubing, or a bundle of wires.

For these reasons it is not practical to provide a general chart showing the current carrying capacity of Lead Wire for all conditions. Accordingly, the values shown in Table 3 are MAXIMUM for a single conductor in free air, based on ambient temperature of 30°C. For actual use temperatures above an ambient temperature of 30°C, reduce the maximum ampacity by use of correction factor in Table 5 to correct the values in Table 3 and Table 4.

Table 5: Correction Factors for Tables 3 & 4

Ambient Temperature (°C)	Insulation Temperature Rating				
	90°C	105°C	125°C	150°C	200°C
31 – 35	.96	1.00	1.00	1.00	1.00
36 – 40	.91	1.00	1.00	1.00	1.00
41 – 45	.87	.93	.94	.95	.97
46 – 50	.82	.93	.94	.95	.97
51 – 55	.76	.85	.87	.90	.94
56 – 60	.71	.85	.87	.90	.94
61 – 70	.58	.76	.80	.85	.90
71 – 80	.41	.65	.73	.80	.87
81 – 90	—	.53	.64	.74	.83
91 – 100	—	.38	.54	.67	.79
101 – 120	—	—	.24	.52	.71
121 – 140	—	—	—	.30	.61
141 – 160	—	—	—	—	.50
161 – 180	—	—	—	—	.35

For ambient temperatures over 30°C, multiply the ampacities shown in Table 3 or Table 4 by the appropriate correction factor to determine the maximum allowable load current.

Correction Factors for Table 4

Number of Conductors	Reduction Percentage
4 thru 6	80%
7 thru 9	70%
10 thru 20	50%
21 thru 30	45%
31 thru 40	40%
41 and above	35%

If more than three (3) conductors are in a raceway, conduit or cable, the values given in Table 4 must be reduced using the above percentages.

(Example: The ampacity for 7 through 9 conductors = 70% of the the value(s) shown in Table 4.)

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Technical Information

Temperature Ranges and Classifications
Conductor Configurations

Table 6: Nominal Temperature Operating Ranges (°C)

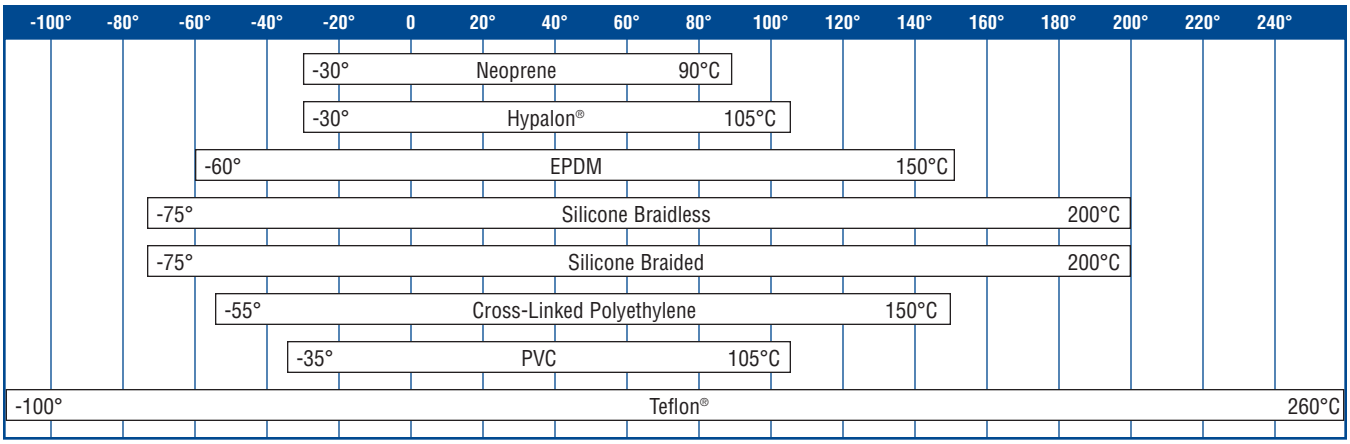


Table 7: Temperature Classification

Insulation System Class	Minimum Acceptable Lead Wire Temperature Rating	
	C°	F°
130(B)	90	194
155(F)	125	257
180(H)	150	302
220(R)	200	392

Systems of Insulating Materials — UL Standard 1446

This is a guide intended for UL approved insulation systems connected to branch circuits of 600V or less. Approval required by Underwriters Laboratories when using lead wire with a temperature rating more than 5°C under the system temperature rating.

Table 8: Conductor Configurations

Typical Application	American Wire Gage							
	12	14	16	18	20	22	24	26
Fixed Services Hook-Up Wire Cable in Raceway	19x25	solid or 19x27	solid or 19x29	solid or 7x26 or 16x30	solid or 7x28 or 10x30	solid or 7x30	solid or 7x32	solid or 7x34
Moderate Flexing Frequently Disturbed For Maintenance	65x30	19x27 or 41x30	19x29 or 26x30	16x30 or 41x34	7x28, 10x30, 19x32, or 26x34	7x30 or 19x34	7x34 or 10x34	7x34
Severe Flexing Microphone Test Prods	165x34	104x34	65x34 or 104x36	41x34 or 65x36	26x34 or 42x36	19x34 or 26x36	19x36 or 45x40	7x34 or 10x36
Most Severe Duty Mercury Switches	259x36 (7x37 Rope Lay)*	168x36 (7x24 Rope Lay)*	105x36 (7x15 Rope Lay)*	63x36 (7x9 Rope Lay)*	105x40 (3x35 Rope Lay)*	(Consider Braid or Tinsel)		

Note: For a given AWG wire size (based on equal cross-sectional area of conductor), limpness and flex life are increased by use of a large number of fine strands. The finer stranding does result in higher costs.

*Rope Lay is several stranded groups cabled together. For example: #12 AWG, 259x36 is 7 cords each consisting of 37 strands of #36 AWG

Hypalon and Teflon are DuPont trademarks.

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Technical Information
Packaging

Drums



Conductor is available in three drum pack sizes:

- The #15 Beldpak® is 15″ high and 23″ in diameter.
- The #31 Beldpak is 30½″ high and 23″ in diameter.
- The #42 Beldpak (pictured) is 42″ high and 23″ in diameter.

Price and delivery information is available upon request.

OD of Wire		#15 Beldpak		#31 Beldpak		#42 Beldpak	
Inch	mm	1000′	km	1000′	km	1000′	km
.070	1.78	35	10.7	70	21.3	85	25.9
.080	2.03	27	8.2	55	16.8	70	21.3
.090	2.29	21	6.4	43	13.1	55	16.8
.100	2.54	17	5.2	35	10.7	48	14.6
.110	2.79	12	3.7	25	7.6	40	12.2
.120	3.05	10	3.0	20	6.1	34	10.4
.130	3.30	9	2.7	18	5.5	30	9.1
.140	3.56	8	2.4	15	4.6	20	6.1
.150	3.81	7	2.1	14	4.3	18	5.5
.160	4.06	6	1.8	12	3.7	16	4.9
.170	4.32	5	1.5	10	3.0	14	4.3

Reels

Reel dimensions will vary by size, determined by AWG of wire.



Special Orders

Orders for special packages must be placed for footage mentioned or for multiples for these quantities per color.

OD of Wire		Quantity		Crate Reels*	Head Diameter		Barrel Diameter		Height Transverse	
Inch	mm	1000′	km		Inch	mm	Inch	mm	Inch	mm
.080	2.03	10.0	3.05	1748	15¾	400	8	203	8	203
.090	2.29	8.0	2.44	1748	15¾	400	8	203	8	203
.100	2.54	6.5	1.98	1748	15¾	400	8	203	8	203
.110	2.79	5.0	1.52	1748	15¾	400	8	203	8	203
.120	3.05	6.0	1.83	1747	15¾	400	8	203	10½	267
.130	3.30	5.0	1.52	1747	15¾	400	8	203	10½	267
.140	3.56	6.0	1.83	1746	17¾	451	8	203	10½	267
.150	3.81	5.0	1.52	1746	17¾	451	8	203	10½	267
.160	4.06	4.5	1.37	1746	17¾	451	8	203	10½	267
.170	4.32	7.0	2.13	1744	22	559	10	254	14¼	362
.180	4.57	6.0	1.83	1744	22	559	10	254	14¼	362
.190	4.83	5.5	1.68	1744	22	559	10	254	14¼	362
.200	5.08	5.0	1.52	1744	22	559	10	254	14¼	362
.250	6.35	5.0	1.52	1743	26	660	10	254	14¼	362
.300	7.62	3.5	1.07	1743	26	660	10	254	14¼	362
.350	8.89	2.5	.76	1743	26	660	10	254	14¼	362
.400	10.16	2.0	.61	1743	26	660	10	254	14¼	362
.450	11.43	1.5	.46	1743	26	660	10	254	14¼	362
.500	12.70	1.2	.37	1743	26	660	10	254	14¼	362
.550	13.97	1.0	.31	1743	26	660	10	254	14¼	362
.600	15.24	1.2	.37	1733	30	762	10	254	14¼	362

*Crate Reel numbers are Belden's internal numbers. They are representative only to the extent of the dimensions shown. Weight of the wire may require another reel with dimensions identical to those shown.

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BELDEN
SENDING ALL THE RIGHT SIGNALS



4 Multi-Conductor Cables

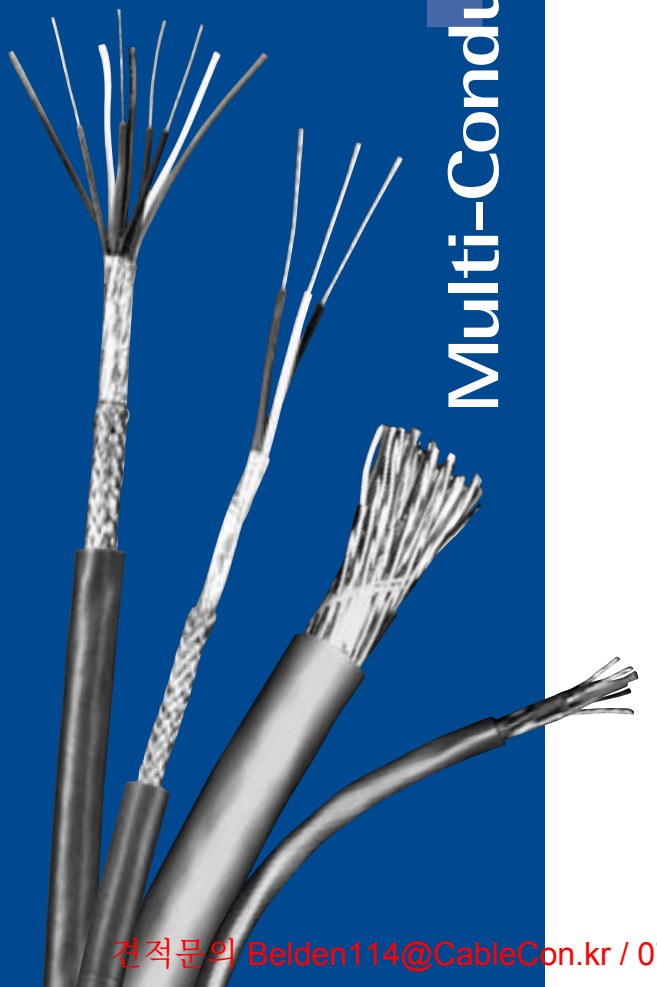


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Please refer to "Terms of Use of Master Catalog" on page 22.22

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Introduction

Belden® multi-conductor cables are manufactured in a wide variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions. These cables meet the technical requirements of many different types of systems. In fact, Belden offers one of the broadest lines of UL Listed, NEC and CEC multi-conductor cables available from any single source.

Applications for multi-conductor cables include computers, communications, instrumentation, sound, control, audio, and data transmission. Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

To assist you in selecting the proper cable for your application, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable product in this section.

Most of our multi-conductor cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a multi-conductor cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Multi-Conductor Cables Packaging

Belden's unique UnReel® cable dispenser is available for many of the multi-conductor products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

Selection Guide

Shielded Multi-Conductor Computer Cables for RS-232 Applications

Specifications			Cable Series* 9925	9608	9533	9939
Conductor Size: (AWG)		28				
		24	✓	✓	✓	
		22				✓
		20				
		18				
		Page No.	4.18	4.17	4.11	4.19
Insulation:	S-R PVC			✓	✓	✓
	Polyethylene					
	Polypropylene					
	Datalene®†		✓			
Shield:	Overall Foil				✓	
	Drain Wire		✓		✓	
	Overall Foil/Braid		✓	✓		✓
	Braid Coverage		65%	65%		65%
Drain Wire Overall:			Yes	No	Yes	No
No. of Cond. Available:		1				
		2				
		3	✓	✓	✓	✓
		4	✓	✓	✓	✓
		5	✓	✓	✓	✓
		6	✓	✓	✓	✓
		7	✓	✓	✓	✓
		8	✓	✓	✓	✓
		9	✓	✓	✓	✓
		10	✓	✓	✓	✓
		11				
		12				
		13				
		15	✓	✓	✓	✓
		17				
		18				
		19				
		20			✓	
		25	✓	✓	✓	✓
		27				
		30			✓	
		31				
		37	✓	✓		✓
		40			✓	
		50		✓	✓	✓
Capacitance ** (pF/ft.)			12.0	30.0	30.0	35.0

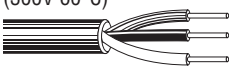
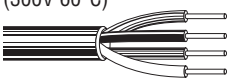
*All cables are UL-listed.
**Capacitance may vary on some cables.
†Foam high density polyethylene.

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Unshielded

Audio, Control and Instrumentation Cables
Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
22 AWG Solid Bare Copper Conductors • Conductors Cabled														
Polyethylene Insulation • Rose Gray PVC Jacket														
UL AWM Style 2092 (300V 60°C) 	**8795**	NEC: CM CEC: CM	2	Red, Green	U-500 U-1000 1000	U-152.4 U-304.8 304.8	10.0 19.0 17.0	4.5 8.6 7.8	.018	.46	.022	.56	.168	4.27
UL AWM Style 2093 (300V 60°C) 	**8794**	NEC: CM	3	Green, Red, Yellow	U-1000 1000	U-304.8 304.8	22.0 21.0	10.0 9.6	.018	.46	.022	.56	.178	4.52
UL AWM Style 2094 (300V 60°C) 	**9794**	NEC: MP, CM	4	Green, Red, Yellow, Black	U-500 U-1000 1000	U-152.4 U-304.8 304.8	14.0 26.0 25.0	6.4 11.8 11.4	.018	.46	.025	.64	.200	5.08
UL AWM Style 2094 (300V 60°C) 	**1242A**	NEC: CM CEC: CM	4	Green, Red, Yellow, Black	U-1000	U-304.8	16.0	7.2	.018	.46	.025	.64	.154	3.91
22 AWG Stranded (7x30) Tinned Copper Conductors • Conductors Cabled														
PVC Insulation • Chrome PVC Jacket														
 *Twisted pair	**8442***	NEC: CMG CEC: CMG FT4	2	Black, Red	100 U-500 500 U-1000 1000 10000 †	30.5 U-152.4 152.4 U-304.8 304.8 3048.0	2.4 8.0 7.5 15.0 15.0 150.0	1.1 3.7 3.4 6.8 6.8 68.2	.015	.38	.025	.64	.170	4.32
											For Plenum versions of 8442, see 88442 or 82442.			
UL AWM Style 2576 (150V 80°C) 	**8443**	NEC: CMG CEC: CMG FT4	3	Black, Red, Green	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.7 9.5 9.5 18.0 18.0	1.2 4.3 4.3 8.2 8.2	.010	.25	.032	.81	.172	4.37
	8444	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.1 11.5 11.5 22.0 23.0	1.4 5.2 5.2 10.0 10.5	.010	.25	.032	.81	.185	4.70
											For Plenum versions of 8444, see 88444 or 82444.			
	8445	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.5 13.5 13.5 25.0 26.0	1.6 6.1 6.1 11.4 11.8	.010	.25	.032	.81	.194	4.93
	9430	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	17.0 17.0 32.0 34.0	7.7 7.7 14.5 15.9	.010	.25	.032	.81	.214	5.44
	9421	NEC: CMG CEC: CMG FT4	8	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.2 19.0 18.5 36.0 38.0	1.9 8.7 8.4 16.3 17.2	.010	.25	.032	.81	.229	5.82
	9423	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.7 21.0 21.5 41.0 43.0	2.1 9.6 9.8 18.6 19.5	.010	.25	.032	.81	.244	6.20
	8456	NEC: CMG CEC: CMG FT4	10	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.0 22.5 23.0 44.0 46.0	2.3 10.2 10.5 20.0 20.9	.010	.25	.032	.81	.264	6.71

†Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

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Unshielded

Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
22 AWG Stranded (7x30) Tinned Copper Conductors • Conductors Cabled *(continued)*														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2576 (150V 80°C) 	**8457**	NEC: CMG CEC: CMG FT4	12	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.6 25.5 26.0 50.0 52.0	2.5 11.6 11.8 22.7 23.6	.010	.25	.032	.81	.272	6.91
	8458	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.3 35.5 72.0	3.3 16.1 32.7	.010	.25	.040	1.02	.315	8.00
	9431	NEC: CMG CEC: CMG FT4	20	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.1 48.5 87.0	4.1 22.0 39.5	.010	.25	.040	1.02	.345	8.76
	8459	NEC: CMG CEC: CMG FT4	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.1 55.0 109.0	5.0 25.0 49.5	.010	.25	.040	1.02	.387	9.83
	9432	NEC: CMG CEC: CMG FT4	30	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.5 62.5 124.0	5.7 28.4 56.3	.010	.25	.040	1.02	.400	10.16
	9433	NEC: CMG CEC: CMG FT4	40	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	16.6 83.0 161.0	7.5 37.7 73.1	.010	.25	.040	1.02	.455	11.56
	9434	NEC: CMG CEC: CMG FT4	50	See Chart 2R (Tech Info Section)	500 1000	152.4 304.8	100.5 206.0	45.7 93.5	.010	.25	.045	1.14	.500	12.70
Plenum • FEP Insulation • Red FEP Jacket														
300V RMS, Non-conduit 	**88442***	NEC: CMP CEC: CMP FT6	2	Black, Red	100 500 † 1000 †	30.5 152.4 304.8	2.3 5.5 8.0	1.0 2.5 3.7	.006	.15	.012	.30	.102	2.59
300V RMS, Non-conduit 	**88444**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	100 500 † 1000 †	30.5 152.4 304.8	2.9 9.0 15.0	1.3 4.1 6.8	.006	.15	.010	.25	.121	3.07
Suitable for Outdoor and Direct Burial applications.														
Plenum • FEP Insulation • Natural Flamarrest® Jacket														
300V RMS, Non-conduit 	**82442***	NEC: CMP CEC: CMP FT6	2	Black, Red	U-1000 † 1000 †	U-304.8 304.8	9.0 8.0	4.1 3.7	.006	.15	.015	.38	.113	2.87
300V RMS, Non-conduit 	**82444**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	U-500 † U-1000 † 1000 †	U-152.4 U-304.8 304.8	9.0 16.0 15.0	4.1 7.3 6.8	.006	.15	.015	.38	.134	3.40

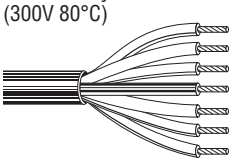
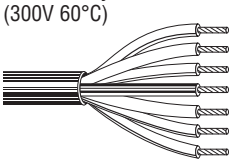
* Twisted Pair
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

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Unshielded

Audio, Control and Instrumentation Cables
Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
20 AWG Stranded (7x28) Tinned Copper Conductors • Conductors Cabled														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2464 (300V 80°C) 	**9444**	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.0 16.5 16.5 32.0 33.0	1.8 7.5 7.5 14.5 15.0	.013	.33	.032	.81	.217	5.51
	9445	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.4 20.0 19.5 38.0 40.0	2.1 9.1 8.9 17.2 18.2	.013	.33	.032	.81	.239	6.07
	9439	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.7 26.0 27.0 51.0 53.0	2.6 11.9 12.3 23.1 24.1	.013	.33	.032	.81	.260	6.60
	9455	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.1 35.0 67.0	3.2 15.9 30.4	.013	.33	.035	.89	.317	8.05
	9457	NEC: CMG CEC: CMG FT4	12	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.2 45.0 88.0	4.2 20.4 40.0	.013	.33	.035	.89	.338	8.58
	9458	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.6 60.5 118.0	5.7 27.5 53.6	.013	.33	.040	1.02	.389	9.88
18 AWG Stranded (19x30) Tinned Copper Conductors • Conductors Cabled														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2598 (300V 60°C) 	**8489**	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 250 U-500 500 U-1000 1000	30.5 76.2 U-152.4 152.4 U-304.8 304.8	5.1 12.0 23.5 24.0 46.0 48.0	2.3 5.4 10.7 10.9 20.9 21.8	.017	.43	.032	.81	.257	6.53
	8465	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	6.4 29.5 30.0 58.0 60.0	2.9 13.5 13.6 26.3 27.4	.017	.43	.033	.84	.282	7.16
	8467	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	8.3 20.0 40.5 79.0	3.8 9.1 18.4 35.9	.017	.43	.037	.94	.314	7.98
	8469	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	10.5 26.0 51.5 105.0	4.8 11.8 23.4 47.7	.017	.43	.037	.94	.364	9.25
	8466	NEC: CMG CEC: CMG FT4	12	See Chart 2R (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	13.2 32.5 66.0 131.0	6.0 14.8 30.0 59.5	.017	.43	.040	1.02	.412	10.46
	8468	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	17.9 89.5 175.0	8.1 40.6 79.5	.017	.43	.045	1.14	.500	12.70

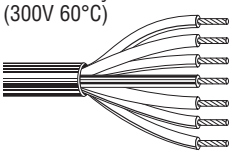
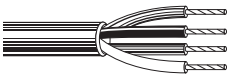
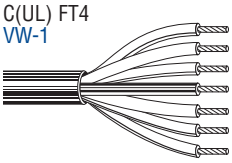
For Plenum versions of 8489, see 88489 or 82489.

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Unshielded

Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
18 AWG Stranded (19x30) Tinned Copper Conductors • Conductors Cabled *(continued)*														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2598 (300V 60°C) 	**8619**	NEC: CMG CEC: CMG FT4	19	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	20.3 101.0 198.0	9.2 45.9 90.0	.017	.43	.045	1.14	.490	12.45
	9626	NEC: CMG CEC: CMG FT4	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	29.1 139.5 277.0	13.2 63.3 125.8	.017	.43	.060	1.52	.612	15.54
Plenum • FEP Insulation • Red FEP Jacket														
300V RMS 	**88489**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	500† 1000†	152.4 304.8	14.5 29.0	6.6 13.2	.007	.18	.009	.23	.161	4.09
Suitable for Outdoor and Direct Burial applications.														
Plenum • FEP Insulation • Natural Flamarrest® Jacket														
300V RMS 	**82489**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	U-1000† 1000†	U-304.8 304.8	31.0 29.0	14.1 13.2	.007	.18	.014	.36	.170	4.32
16 AWG Stranded (19x29) Tinned Copper Conductors • Conductors Cabled														
PVC Insulation • Cabled Wire (No Jacket)														
UL AWM Style 1007 (300V 80°C) VW-1 	**9498**	—	3	Orange, Black, Orange w/ Black Stripe	1000	304.8	42.0	19.1	.027	.69	—	—	.243	6.17
PVC Insulation • Chrome PVC Jacket														
600V RMS 80°C C(UL) FT4 VW-1 	**8620**	—	4	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.9 44.0 88.0	4.0 20.0 40.0	.031	.79	.042	1.07	.376	9.55
	9620	—	5	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.0 53.5 109.0	5.0 24.3 49.5	.031	.79	.042	1.07	.411	10.44
	8621	—	7	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.2 73.5 143.0	6.0 33.4 65.0	.031	.79	.045	1.14	.458	11.63
	9721	—	8	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	27.3 136.5 269.0	12.4 62.0 122.1	.031	.79	.045	1.14	.496	12.60
	9621	—	9	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	17.0 94.0 181.0	7.8 42.7 82.2	.031	.79	.045	1.14	.533	13.54
	8622	—	12	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	27.0 126.5 251.0	12.3 57.4 114.0	.031	.79	.060	1.52	.627	15.93
	8623	—	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	32.5 155.5 314.0	14.8 70.6 142.6	.031	.79	.060	1.52	.694	17.63
	8624	—	19	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	36.8 178.5 361.0	16.7 81.0 164.0	.031	.79	.065	1.65	.740	18.80
	9622	—	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	49.0 236.0 480.0	22.2 107.1 217.9	.031	.79	.065	1.65	.879	22.33

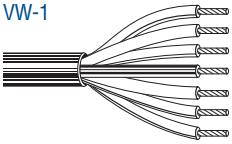
†Spools and/or UnReel® cartons are one piece, but length may vary ± 10% for spools and ± 5% for UnReel from length shown.

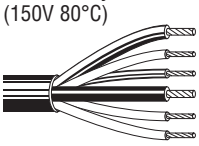
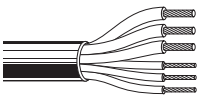
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Unshielded

Audio, Control, Communication and Instrumentation Cables
Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
14 AWG Stranded (19x27) Tinned Copper Conductors • Conductors Cabled														
PVC Insulation • Chrome PVC Jacket														
600V RMS 80°C VW-1 	**8627**	—	4	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.8 76.5 149.0	6.3 34.7 67.6	.045	1.14	.045	1.14	.490	12.45
	9623	—	5	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	18.1 99.5 197.0	8.3 45.1 89.4	.045	1.14	.060	1.52	.573	14.55
	8628	—	7	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	23.9 128.0 255.0	11.0 58.1 115.8	.045	1.14	.060	1.52	.623	15.82
	8629	—	12	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	44.6 222.0 454.0	20.2 100.8 206.1	.045	1.14	.065	1.65	.824	20.93

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 and 18 AWG Stranded (7x30 and 16x30) Tinned Copper Conductors • Conductors Cabled																		
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2576 (150V 80°C) 	**8446**	NEC: CMG CEC: CMG FT4	6: 4 Unshld 22 (7x30) 2 Unshld 18 (16x30)	Red, Green, Brown, Blue Black, White	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.7 21.5 21.5 41.0 43.0	2.1 9.8 9.8 18.6 19.5	.010 .019	.25 .48	.032	.81	.236	5.99	30	98	54	177
20 and 16 AWG Stranded (7x28 and 19x28) Tinned Copper Conductors • Conductors Cabled																		
PVC Insulation • Chrome PVC Jacket																		
NEC Article 800 (90°C) 	**9686**	NEC: CM	6: 3 Unshld 20 (7x28) 3 Unshld 16 (19x28)	Green, Blue, Purple Black, Red, Yellow	U-500	U-152.4	32.5	14.7	.012 .013	.30 .33	.032	.81	.295	7.49	20 30	66 98	36 54	118 177

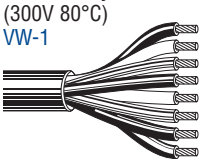
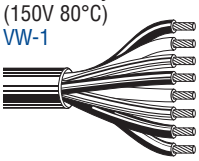
*Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.

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Unshielded

Antenna Rotor Control Cables, Security/Audio Systems and Duplex Primary Wire

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	AWG (stranding)	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
						Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
Antenna Rotor Cables Stranded Tinned Copper Conductors • Conductors Cabled															
PVC Insulation • Chrome PVC Jacket															
UL AWM Style 2464 (300V 80°C) VW-1 	**9405**	NEC: CM	8	Black, White	2@16 (19x28)	500 1000	152.4 304.8	47.0 92.0	21.3 41.8	.019	.48	.032	.81	.345	8.76
				Brown, Red, Yellow, Blue, Orange, Green	6@18 (16x30)					.018	.46				
UL AWM Style 2576 (150V 80°C) VW-1 	**8448**	NEC: CMG CEC: CMG FT4	8	Black, White	2@18 (16x30)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	25.0 25.5 49.0 50.0	11.4 11.6 22.2 22.7	.019	.48	.032	.81	.259	6.58
				Red, Green, Brown, Blue, Yellow, Orange	6@22 (7x30)					.010	.25				
Security/Audio/Power Limited Controls Cable Stranded Bare Copper Conductors • Conductors Parallel															
PVC Insulation • Chrome PVC Jacket															
200V RMS 75°C VW-1 	**8484**	—	4	Black, Green, Red, White	20 (7x28)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	12.5 12.5 24.0 25.0	5.7 5.7 10.9 11.4	—	—	—	—	.177	4.50
Duplex Primary Wire Stranded Bare Copper Conductors • Conductors Parallel															
PVC Insulation • Chrome PVC Jacket															
300V RMS 75°C VW-1 	**8677**	—	2	Brown, Red	16 (19x29)	500	152.4	18.5	8.4	.024	.61	.022	.56	.149 x .254	3.78 x 6.45
	8675	—	2	Brown, Red	14 (19x27)	500	152.4	23.5	10.7	.023	.58	.023	.58	.168 x .290	4.27 x 7.37
	8673	—	2	Brown, Red	12 (19x25)	500	152.4	32.5	14.8	.026	.66	.022	.56	.186 x .328	4.72 x 8.33
	8678	—	2	Brown, Red	10 (19x23)	500	152.4	51.0	23.1	.031	.79	.025	.64	.225 x .400	5.72 x 10.16

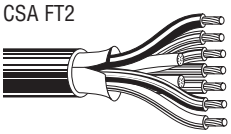
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Unshielded

Power and Control Cables

Rubber and Oil-Resistant Rubber SO Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
16 AWG Stranded (65x34) Bare Copper Conductors • Conductors Cabled with Fillers • Paper Tape Separator														
EPDM Rubber Insulation • Black Oil-resistant Rubber Jacket														
600V RMS 60°C CSA FT2 	**9420**	UL: SO CSA: SO	5	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.3 73.5 143.0	6.0 33.4 65.0	.033	.838	.084	2.13	.506	12.85
	9422	UL: SO CSA: SO	7	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	18.5 101.0 201.0	8.4 45.9 91.3	.033	.838	.083	2.11	.581	14.76
	9424	UL: SO CSA: SO	9	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	29.6 150.5 288.0	13.4 68.3 130.8	.033	.838	.100	2.54	.720*	18.29
	9425	UL: SO CSA: SO	12	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	32.6 165.5 318.0	14.8 75.1 144.4	.033	.838	.100	2.54	.720	18.29
	9427	UL: SO CSA: SO	16	See Chart 2 (Tech Info Section)	100 1000	30.5 304.8	39.5 428.0	17.9 194.3	.033	.838	.100	2.54	.787	19.99
	9429	UL: SO CSA: SO	20	See Chart 2 (Tech Info Section)	100 500	30.5 152.4	48.4 233.0	22.0 105.8	.033	.838	.100	2.54	.862	21.89

EPDM = Ethylene Propylene Diene Monomer

*Fillers added in the center

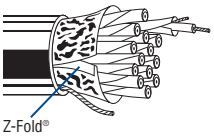
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Overall Beldfoil® Shield

Computer Cable for Synchronous EIA Interface

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Imped. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
28 AWG Stranded (7x36) TC Conductors • Individually and Overall Beldfoil Shielded (100% Coverage) • 28 AWG Stranded TC Drain Wires																	
Datalene® Insulation • Gray PVC Jacket																	
UL AWM Style 2384 (30V 60°C)	**9868**	NEC: CM	14	1000	304.8	71.0	32.2	.394	10.01	64.9Ω/M′ 212.9Ω/km	Individual: 44.0Ω/M′ 144.4Ω/km Overall: 18.2Ω/M′ 59.7Ω/km	65	78%	—	—	20.5	67.3



Z-Fold®

Individually Beldfoil shielded conductors are isolated from adjacent shields and each has a 28 AWG stranded TC drain wire.

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.

Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

Color Codes

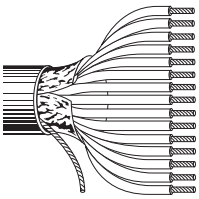
Cond. No.	Color
1	Black w/ Blue Shield
2	Brown w/ Blue Shield
3	Red w/ Blue Shield
4	Orange w/ Blue Shield
5	Blue w/ Blue Shield
6	Yellow w/ Blue Shield
7	Natural w/ Blue Shield
8	Black w/ Red Shield
9	Brown w/ Red Shield
10	Red w/ Red Shield
11	Orange w/ Red Shield
12	Blue w/ Red Shield
13	Yellow w/ Red Shield
14	Natural w/ Red Shield

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Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C) 	**9533**	NEC: CMG CEC: CMG FT4	3	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.7 9.5 9.0 18.0 18.0	1.2 4.3 4.1 8.2 8.2	.010	.25	.032	.81	.162	4.11	33	108	65	213
	9534	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.0 11.0 11.5 21.0 22.0	1.4 5.0 5.2 9.5 10.0	.010	.25	.032	.81	.184	4.67	33	108	65	213
	9535	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.2 12.0 11.0 23.0 22.0	1.5 5.4 5.0 10.4 10.0	.010	.25	.032	.81	.189	4.80	33	108	65	213
	9536	NEC: CMG CEC: CMG FT4	6	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.6 14.5 12.5 27.0 29.0	1.6 6.6 5.7 12.3 13.2	.010	.25	.032	.81	.209	5.31	33	108	65	213
	9537	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.7 15.0 13.5 29.0 30.0	1.7 6.8 6.2 13.2 13.7	.010	.25	.032	.81	.209	5.31	33	108	65	213
	9538	NEC: CMG CEC: CMG FT4	8	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.8 17.0 15.0 32.0 34.0	1.7 7.7 6.8 14.6 15.4	.010	.25	.032	.81	.224	5.69	33	108	65	213
	9539	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.2 20.0 17.0 37.0 38.0	1.9 9.1 7.8 16.9 17.3	.010	.25	.032	.81	.244	6.20	30	98	55	180
	9540	NEC: CMG CEC: CMG FT4	10	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.3 19.5 18.0 38.0 36.0	2.0 8.9 8.2 17.2 16.4	.010	.25	.032	.81	.244	6.20	30	98	55	180
	9541	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.9 27.5 28.0 54.0 56.0	2.7 12.5 12.7 24.5 25.4	.010	.25	.032	.81	.284	7.21	30	98	55	180
	9542	NEC: CMG CEC: CMG FT4	20	See Chart 2R (Tech Info Section)	100 U-500 500 1000	30.5 U-152.4 152.4 304.8	7.3 34.0 35.5 69.0	3.3 15.4 16.1 31.3	.010	.25	.032	.81	.314	7.98	30	98	55	180
	9543	NEC: CMG CEC: CMG FT4	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.7 44.0 86.0	4.0 20.0 39.0	.010	.25	.032	.81	.339	8.61	30	98	55	180
	9544	NEC: CMG CEC: CMG FT4	30	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.3 51.5 102.0	4.7 23.4 46.3	.010	.25	.040	1.02	.380	9.65	30	98	55	180
	9545	NEC: CMG CEC: CMG FT4	40	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.5 65.0 130.0	6.1 29.5 59.0	.010	.25	.040	1.02	.430	10.92	30	98	55	180
	9546	NEC: CMG CEC: CMG FT4	50	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	16.4 81.5 168.0	7.4 37.0 76.3	.010	.25	.045	1.14	.490	12.45	30	98	55	180

TC = Tinned Copper

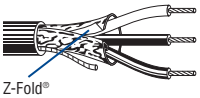
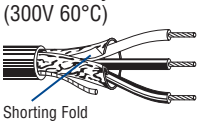
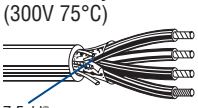
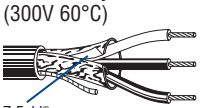
*Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.

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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables
Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Brown PVC Jacket																		
300V RMS	**9770**	NEC:	3	Black,	U-500	U-152.4	9.0	4.1	.008	.20	.020	.51	.145	3.68	32	105	60	197
		CM		Red,	500	152.4	9.0	4.1										
		CEC:		White	U-1000	U-304.8	18.0	8.2										
		CM			1000	304.8	17.0	7.7										
 Z-Fold®																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2093 (300V 60°C)	**8771**	NEC:	3	Black,	250	76.2	6.3	2.8	.016	.41	.033	.84	.199	5.05	23	75	41	134
		CM		Red,	U-500	U-152.4	12.0	5.5										
		CEC:		Clear	500	152.4	12.0	5.5										
		CM			U-1000	U-304.8	23.0	10.4										
 Shorting Fold					1000	304.8	24.0	10.9										
					10000†	3048.0	240.0	109.1										
22 AWG Stranded (19x34) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 23 and 25 AWG Drain Wires††																		
Polyethylene Insulation • White PVC Jacket																		
UL AWM Style 2094 (300V 75°C)	**8729**	NEC:	4	Black,	U-500	U-152.4	23.0	10.5	.016	.41	.051	1.30	.257	6.53	22	72	42	138
		CM, CL3		Red,	500	152.4	21.5	9.8										
		CEC:		Green,	U-1000	U-304.8	45.0	20.4										
		CM		Clear	1000	304.8	47.0	21.4										
 Z-Fold®																		
20 AWG Stranded (7x28) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2093 (300V 60°C)	**8772**	NEC:	3	Black,	U-500	U-152.4	16.0	7.3	.016	.41	.033	.84	.218	5.54	27	89	51	167
		CM		Red,	500	152.4	16.0	7.3										
		CEC:		Clear	U-1000	U-304.8	31.0	14.1										
		CM			1000	304.8	32.0	14.5										
 Z-Fold®																		

TC = Tinned Copper

*Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.
†Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

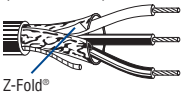
††8729 has three 23 AWG solid and one 25 AWG stranded tinned copper-coated steel drain wires.

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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Insulation Thickness Inch	Insulation Thickness mm	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Nominal Capacitance * pF/ Ft.	Nominal Capacitance * pF/ m	Nominal Capacitance ** pF/ Ft.	Nominal Capacitance ** pF/ m
18 AWG Stranded (16x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2093 (300V 60°C)	**8770**	NEC: CM CEC: CM	3	Black, Red, Clear	U-500 500 U-1000 1000 10000 ††	U-152.4 152.4 U-304.8 304.8 3048.0	20.0 20.5 38.0 40.0 430.0	9.1 9.3 17.2 18.2 195.5	.018	.46	.033	.84	.246	6.25	24	79	48	157
 Shorting Fold											For Plenum version of 8770, see 88770.							
18 AWG Stranded (19x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C)	**9418**	NEC: CMG CEC: CMG FT4	4	Red, Green, Black, White	100 U-500 500 U-1000 1000 10000 ††	30.5 U-152.4 152.4 U-304.8 304.8 3048.0	5.6 18.0 24.5 35.0 52.0 510.0	2.6 8.2 11.1 16.0 23.7 231.3	.010	.25	.035	.89	.245	6.22	70	230	120	394
 Z-Fold®											For Plenum versions of 9418, see 89418 or 82418.							
Plenum • FEP Insulation • Red FEP Jacket																		
(-70°C to +200°C)	**88770**	NEC: CMP CEC: CMP FT6	3	Black, White, Red	500 1000	152.4 304.8	16.0 32.0	7.3 14.6	.007	.18	.014	.36	.161	4.09	54	177	96	315
 Suitable for Outdoor and Direct Burial applications. Chemical Resistance: Gasoline and Oil.																		
(-70°C to +200°C)	**89418**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	100 500 † 1000 †	30.5 152.4 304.8	5.5 18.0 36.0	2.5 8.2 16.4	.007	.18	.014	.36	.177	4.50	30	98	57	187
 Suitable for Outdoor and Direct Burial applications. Chemical Resistance: Gasoline and Oil.																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
(-70°C to +200°C)	**82418**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	U-1000 ▲ 1000 †	U-304.8 304.8	36.0 38.0	16.4 17.2	.007	.18	.014	.36	.176	4.47	30	98	63	207
																		
16 AWG Stranded (19x29) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 18 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2107 (300V 60°C)	**8618**	NEC: CL3	3	Black, Red, Clear	U-500 500 1000	U-152.4 152.4 304.8	31.0 32.5 66.0	14.1 14.8 30.1	.031	.79	.031	.79	.327	8.3	26	85	50	164
 Z-Fold®																		

TC = Tinned Copper

* Capacitance between conductors.
** Capacitance between one conductor and other conductors connected to shield.
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.
†† Final put-up may vary -10% to +20%. May contain 2 pieces. Min. length 1500 ft.
▲ Final put-up may vary 0 to -10%.

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Overall Braid and Special Shielding

Audio, Control and Instrumentation Cables
Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
30 AWG Stranded (7x38) TC Conductors • Conductors Cabled around Textile Strength Member • Paper Separator • TC Braid Shield (95% Coverage)																		
Polypropylene Insulation • Chrome PVC Jacket																		
200V RMS 105°C	**8643**	—	3	Black, Red, White	100 250	30.5 76.2	1.1 3.0	.5 1.4	.006	.15	.014	.36	.096	2.44	25	82	43	141
																		
Conductors cabled around textile strength member.																		
22 AWG Stranded (7x30) Tinned Copper Conductors • Conductors Cabled • Tinned Copper Braid Shield (70% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2095 (300V 80°C)	**8735**	NEC: CMG CEC: CMG FT4	3	Black, Red, White	500 U-1000 1000	152.4 U-304.8 304.8	14.0 27.0 27.0	6.4 12.3 12.3	.015	.38	.025	.64	.202	5.13	34	112	60	197
																		
20 AWG Stranded (7x28) Tinned Copper Conductors • Tinned Copper Braid Shield (85% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C)	**9260**	NEC: CMG CEC: CMG FT4	6	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.3 35.5 69.0	3.3 16.1 31.4	.016	.41	.032	.81	.305	7.75	26	85	50	164
	**9261**	NEC: CMG CEC: CMG FT4	12	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.0 60.0 119.0	5.5 27.3 54.1	.016	.41	.040	1.02	.396	10.06	26	85	57	187
Combination Shielded/Unshielded • 22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • TC Braid Shield (80% Coverage)†																		
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2785 (300V 80°C)	**8734**	NEC: CM	3: 1 Shld 2 Unshld	Black, Red, White	U-1000 1000	U-304.8 304.8	23.0 21.0	10.4 9.6	.015	.38	.025	.64	.194	4.93	—	—	79	259
																		
†Tinned copper braid shield over one conductor (80% coverage).																		
Overall Spiral Shield • 18 AWG Stranded (7x26) TC Conductors • Conductors Cabled • Tinned Copper Spiral Wrap (80% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
450V RMS 80°C VW-1	**8791**	—	3	Black, Red, White	500 U-1000 1000	152.4 U-304.8 304.8	23.0 44.0 46.0	10.4 20.0 20.9	.022	.56	.028	.71	.260	6.60	47	154	84	276
																		

TC = Tinned Copper

*Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.

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Overall Braid Shield

MIL-W-16878 (Type B) Conductors, Shielded and Jacketed†
Communication and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (19x34) TC Conductors • .003″ (.76mm) Clear Nylon Skin over Insulation • Tinned Copper Braid Shield (90% Coverage)																		
PVC Insulation • White PVC Jacket																		
600V RMS 105°C VW-1	**9965**	—	1	White	1000	304.8	10.0	4.5	.010	.25	.010	.25	.100	2.54	—	—	100	328
	**9966**	—	2	White, Black	100 500 1000	30.5 152.4 304.8	2.9 10.5 19.0	1.3 4.8 8.7	.010	.25	.020	.51	.176	4.47	52	171	87	285
	9967	—	3††	White, Black, Red	100 500 1000	30.5 152.4 304.8	3.4 13.0 24.0	1.5 5.9 10.9	.010	.25	.020	.51	.184	4.67	45	148	88	289
	9968	—	4††	White, Black, Red, Green	100 500 1000	30.5 152.4 304.8	3.9 14.5 29.0	1.8 6.6 13.2	.010	.25	.020	.51	.200	5.08	42	138	69	226
20 AWG Stranded (19x32) Tinned Copper Conductors • .004″ (.10mm) Clear Nylon Skin over Insulation • TC Braid Shield (90% Coverage)																		
PVC Insulation • White PVC Jacket																		
600V RMS 105°C VW-1	**9961**	—	1	White	500 1000	152.4 304.8	4.5 9.0	2.0 4.1	.011	.27	.010	.25	.109	2.77	—	—	103	338
	**9962**	—	2††	White, Black	100 500 1000	30.5 152.4 304.8	3.3 11.0 22.0	1.5 5.0 10.0	.011	.27	.020	.51	.192	4.88	53	174	91	299
	9963	—	3††	White, Black, Red	100 500 1000	30.5 152.4 304.8	3.9 14.5 29.0	1.8 6.6 13.2	.011	.27	.025	.64	.210	5.33	49	161	84	276
	9964	—	4††	White, Black, Red, Green	100 500 1000	30.5 152.4 304.8	4.6 18.0 39.0	2.1 8.2 17.7	.011	.27	.025	.64	.226	5.74	40	131	100	328
16 AWG Stranded (19x29) Tinned Copper Conductors • .004″ (.10mm) Clear Nylon Skin over Insulation • TC Braid Shield (90% Coverage)																		
PVC Insulation • White PVC Jacket																		
600V RMS 105°C VW-1	**9951**	—	1	White	1000	304.8	20.0	9.1	.012	.30	.016	.41	.143	3.63	—	—	138	453
	**9952**	—	2††	White, Black	100 500 1000	30.5 152.4 304.8	4.6 19.0 42.0	2.1 8.7 19.1	.012	.30	.025	.64	.250	6.35	57	187	95	312
	9953	—	3††	White, Black, Red	100 500 1000	30.5 152.4 304.8	5.2 26.0 56.0	2.4 11.9 25.5	.012	.30	.025	.64	.264	6.71	58	190	101	331
	9954	—	4††	White, Black, Red, Green	100 500 1000	30.5 152.4 304.8	7.7 34.5 73.0	3.5 15.7 33.1	.012	.30	.027	.69	.291	7.39	49	161	94	308

TC = Tinned Copper

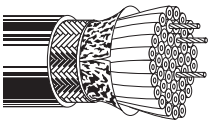
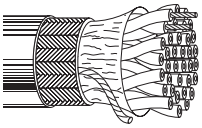
* Capacitance between conductors.
** Capacitance between one conductor and other conductors connected to shield.
† Manufactured to Government specifications: MIL-W-16878 Rev. D.
†† Conductors cabled.

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Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications and IEEE 488 Interface, Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Vel. of Prop.	Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield		* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
28 AWG Stranded (7x36) Tinned Copper Conductors • Overall Beldfoil® (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)																	
Semi-rigid PVC Insulation • Chrome PVC Jacket																	
UL AWM Style 2464 (300V 80°C) CSA AWM I B FT4 	**9637**	NEC: CL2	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.2 30.0 59.0	2.8 13.6 26.8	.305	7.75	64.9Ω/M′ 212.9Ω/km	4.5Ω/M′ 14.8Ω/km	66%	30	98	50	164
Low Cap 28 AWG Stranded (7x36) TC Conductors • Overall Beldfoil (100% Coverage) + TC Braid Shield (65% Coverage) • Drain Wire†																	
Datalene® Insulation • Chrome PVC Jacket																	
UL AWM Style 2919 (30V 80°C) VW-1 	**9791**	NEC: CL2	6	See Chart 1 (Tech Info Section)	500 1000	152.4 304.8	13.0 29.0	6.0 13.2	.225	5.72	64.9Ω/M′ 212.9Ω/km	6.15Ω/M′ 20.2Ω/km	78%	12	39.4	22	72.2
IEEE 488 • 26 AWG & 24 AWG Stranded (7x34 & 7x32) TC Cond. • Overall Beldfoil (100% Coverage) + TC Braid Shield (90% Coverage) • Drain Wire																	
Semi-rigid PVC Insulation • Gray PVC Jacket																	
UL AWM Style 2464 (300V 80°C) CSA AWM I A 	**9641**	NEC: CMG CEC: CMG FT4	23: (6) 26 AWG Pairs (10) 26 AWG Cond. (1) 24 AWG Cond.	See Chart 1 (Tech Info Section)	1000	304.8	82.0	37.4	.350	8.89	26 AWG: 37.3Ω/M′ 122.4Ω/km 24 AWG: 23.3Ω/M′ 76.4Ω/km	2.6Ω/M′ 8.5Ω/km	66%	—	—	—	—

†28 AWG Stranded TC Drain Wire

TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to ground.

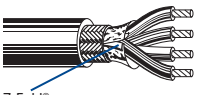
Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage)																
Semi-rigid PVC Insulation • Chrome PVC Jacket																
UL AWM Style 2464 (300V 80°C)  Z-Fold®	**9608**	NEC: CMG CEC: CMG FT4	3	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.1 12.0 23.0	1.4 5.4 10.4	.190	4.83	25.0Ω/M′ 82.0Ω/km	9.8Ω/M′ 32.2Ω/km	35	115	65	213
	9609	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.5 13.5 26.0	1.6 6.1 11.8	.200	5.08	25.0Ω/M′ 82.0Ω/km	9.8Ω/M′ 32.2Ω/km	35	115	65	213
	9610	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.0 16.0 32.0	1.8 7.3 14.5	.215	5.46	25.0Ω/M′ 82.0Ω/km	6.5Ω/M′ 21.3Ω/km	35	115	65	213
	9611	NEC: CMG CEC: CMG FT4	6	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.2 17.0 34.0	1.9 7.7 15.4	.225	5.72	25.0Ω/M′ 82.0Ω/km	7.0Ω/M′ 23.0Ω/km	30	98.4	55	180
	9612	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.2 18.5 38.0	1.9 8.4 17.3	.225	5.72	25.0Ω/M′ 82.0Ω/km	6.9Ω/M′ 22.6Ω/km	30	98.4	55	180
	9613	NEC: CMG CEC: CMG FT4	8	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.5 21.0 41.0	2.0 9.5 18.6	.240	6.10	25.0Ω/M′ 82.0Ω/km	7.3Ω/M′ 23.9Ω/km	30	98.4	55	180
	9614	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.8 22.0 44.0	2.2 10.0 20.0	.253	6.43	25.0Ω/M′ 82.0Ω/km	7.5Ω/M′ 24.6Ω/km	30	98.4	55	180
	9615	NEC: CMG CEC: CMG FT4	10	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.4 25.0 50.0	2.5 11.4 22.7	.270	6.86	25.0Ω/M′ 82.0Ω/km	6.9Ω/M′ 22.6Ω/km	30	98.4	55	180
	9616	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.6 31.5 63.0	3.0 14.3 28.6	.300	7.62	25.0Ω/M′ 82.0Ω/km	6.9Ω/M′ 22.6Ω/km	30	98.4	55	180
	9617	NEC: CMG CEC: CMG FT4	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.1 49.5 100.0	4.6 22.5 45.4	.370	9.40	25.0Ω/M′ 82.0Ω/km	5.1Ω/M′ 16.7Ω/km	30	98.4	55	180
	9618	NEC: CMG CEC: CMG FT4	37	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.7 66.5 135.0	6.2 30.2 61.3	.411	10.43	25.0Ω/M′ 82.0Ω/km	4.4Ω/M′ 14.4Ω/km	30	98.4	55	180
	9619	NEC: CMG CEC: CMG FT4	50	See Chart 2R (Tech Info Section	100 500 1000	30.5 152.4 304.8	17.2 93.0 182.0	7.8 42.2 82.6	.485	12.32	25.0Ω/M′ 82.0Ω/km	4.3Ω/M′ 14.1Ω/km	30	98.4	55	180

DCR = DC Resistance • TC = Tinned Copper

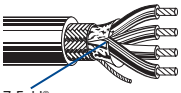
* Capacitance between conductors.
** Nominal capacitance conductor to conductor and shield.

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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Vel. of Prop.	Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield		* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage) • Drain Wire††																	
Datalene® Insulation • Chrome PVC Jacket																	
UL AWM Style 2919 (30V 80°C)	**9925**	NEC: CM CEC: CM	3	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.5 12.0 24.0	1.6 5.5 10.9	.215	5.46	24.0Ω/M′ 78.7Ω/km	5.2Ω/M′ 17.0Ω/km	78%	12	39.4	22	72.2
 Z-Fold®	**9927**	NEC: CM CEC: CM	4	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.6 14.5 32.0	1.6 6.6 14.5	.230	5.84	24.0Ω/M′ 78.7Ω/km	5.3Ω/M′ 17.4Ω/km	78%	12	39.4	22	72.2
	9929	NEC: CM CEC: CM	5	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.0 16.0 36.0	1.8 7.3 16.3	.246	6.25	24.0Ω/M′ 78.7Ω/km	4.2Ω/M′ 13.9Ω/km	78%	12	39.4	22	72.2
	9931	NEC: CM CEC: CM	6	See Chart 1 (Tech Info Section)	100 500 1000 10000	30.5 152.4 304.8 3048.0	4.2 17.5 39.0 410.0	1.9 8.0 17.7 186.1	.265	6.73	24.0Ω/M′ 78.7Ω/km	4.4Ω/M′ 14.4Ω/km	78%	12	39.4	22	72.2
	9932	NEC: CM CEC: CM	7	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.5 18.5 41.0	2.0 8.4 18.6	.265	6.73	24.0Ω/M′ 78.7Ω/km	4.4Ω/M′ 14.4Ω/km	78%	12	39.4	22	72.2
	9933	NEC: CM CEC: CM	8	See Chart 1 (Tech Info Section)	100 500 1000 10000†	30.5 152.4 304.8 3048.0	4.9 21.0 46.0 480.0	2.2 9.6 20.9 217.9	.280	7.11	24.0Ω/M′ 78.7Ω/km	4.4Ω/M′ 14.4Ω/km	78%	12	39.4	22	72.2
	9934	NEC: CM CEC: CM	9	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.2 22.0 48.0	2.4 10.0 21.8	.300	7.62	24.0Ω/M′ 78.7Ω/km	3.9Ω/M′ 12.6Ω/km	78%	12	39.4	22	72.2
	9935	NEC: CM CEC: CM	10	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.7 28.0 53.0	2.6 12.7 24.1	.306	7.77	24.0Ω/M′ 78.7Ω/km	3.2Ω/M′ 10.4Ω/km	78%	12	39.4	22	72.2
	9936	NEC: CM CEC: CM	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.2 35.0 68.0	3.3 15.9 30.9	.350	8.89	24.0Ω/M′ 78.7Ω/km	3.6Ω/M′ 11.7Ω/km	78%	12	39.4	22	72.2
	9937	NEC: CM CEC: CM	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.9 54.5 108.0	4.5 24.8 49.0	.445	11.30	24.0Ω/M′ 78.7Ω/km	2.8Ω/M′ 9.1Ω/km	78%	12	39.4	22	72.2
	9938	NEC: CM CEC: CM	37	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.9 71.5 139.0	5.9 32.5 63.1	.500	12.7	24.0Ω/M′ 78.7Ω/km	2.4Ω/M′ 7.8Ω/km	78%	12	39.4	22	72.2

†24 AWG Stranded TC Drain Wire

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.

††Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

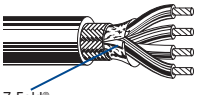
Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) Tinned Copper Conductors • Overall Beldfoil® (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)																
Semi-rigid PVC Insulation • Chrome PVC Jacket																
UL AWM Style 2464 (300V 80°C)  Z-Fold®	**9939**	NEC: CMG CEC: CMG FT4	3	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.6 14.0 27.0	1.6 6.4 12.3	.202	5.13	14.7Ω/M′ 48.2Ω/km	6.2Ω/M′ 20.3Ω/km	37	121	67	220
	9940	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.0 16.5 32.0	1.8 7.5 14.5	.215	5.46	14.7Ω/M′ 48.2Ω/km	5.0Ω/M′ 16.4Ω/km	37	121	67	220
	9941	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.2 19.0 38.0	1.8 8.6 17.3	.230	5.84	14.7Ω/M′ 48.2Ω/km	7.1Ω/M′ 23.3Ω/km	37	121	67	220
	9942	NEC: CMG CEC: CMG FT4	6	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.7 22.0 43.0	2.1 10.0 19.5	.245	6.22	14.7Ω/M′ 48.2Ω/km	7.9Ω/M′ 25.9Ω/km	35	115	63	207
	9943	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.0 23.5 46.0	2.3 10.8 20.9	.245	6.22	14.7Ω/M′ 48.2Ω/km	7.0Ω/M′ 23.0Ω/km	35	115	63	207
	9944	NEC: CMG CEC: CMG FT4	8	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.5 26.0 52.0	2.5 11.8 23.6	.260	6.60	14.7Ω/M′ 48.2Ω/km	6.0Ω/M′ 19.7Ω/km	35	115	63	207
	9945	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.1 28.5 57.0	2.8 12.9 25.9	.280	7.11	14.7Ω/M′ 48.2Ω/km	5.1Ω/M′ 16.7Ω/km	35	115	63	207
	9946	NEC: CMG CEC: CMG FT4	10	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.6 31.5 62.0	3.0 14.3 28.1	.300	7.62	14.7Ω/M′ 48.2Ω/km	4.6Ω/M′ 15.1Ω/km	35	115	63	207
	9947	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.7 42.5 83.0	4.0 19.3 37.7	.340	8.64	14.7Ω/M′ 48.2Ω/km	4.1Ω/M′ 13.5Ω/km	35	115	63	207
	9948	NEC: CMG CEC: CMG FT4	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.3 66.5 132.0	6.0 30.2 59.9	.410	10.41	14.7Ω/M′ 48.2Ω/km	3.1Ω/M′ 10.2Ω/km	35	115	63	207
	9949	NEC: CMG CEC: CMG FT4	37	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	16.1 87.5 180.0	7.3 39.7 81.7	.460	11.68	14.7Ω/M′ 48.2Ω/km	2.7Ω/M′ 8.9Ω/km	35	115	63	207
	9950	NEC: CMG CEC: CMG FT4	50	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	25.2 118.0 238.0	11.4 53.6 108.1	.555	14.10	14.7Ω/M′ 48.2Ω/km	2.3Ω/M′ 7.5Ω/km	35	115	63	207

DCR = DC Resistance

*Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.

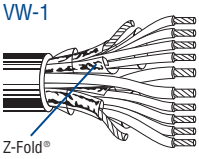
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Overall Shield

Special Audio, Communication and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 and 22 AWG Stranded (7x32 and 7x30) Tinned Copper Conductors • Cabled in Quads† • 24 AWG Stranded Tinned Copper Drain Wire																		
PVC Insulation (22 AWG) / **Polyethylene Insulation** (24 AWG) • **Chrome PVC Jacket**																		
350V RMS 80°C VW-1	**8787**	—	10: 4 Shld 24 (7x32)	Gray, White, Blue, Green	U-500 500	U-152.4	24.0	10.9 10.3	.012	.30	.030	.76	.290	7.37	—	—	—	—
			4 Shld 24 (7x32)	Brown, Red, Yellow, Orange					.012	.30								
			2 Unshld 22 (7x30)	White, Blue					.015	.38								



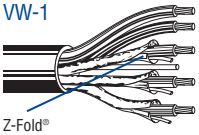
†Each quad wrapped in transparent polyester tape. Red Beldfoil® shield over one quad, Green Beldfoil shield over the other. (2) quads and (2) unshielded conductors cabled.

24 and 22 AWG Stranded (7x32 and 7x30) Tinned Copper Conductors • (4) Conductors Cabled†† • 22 AWG Stranded TC Drain Wire																		
PVC Insulation • Chrome PVC Jacket																		
300V 90°C NEC Article 800	**8786**	NEC: CM CEC: CM	6: 4 Shld 24 (7x32)	Black, Green, Red, Yellow	U-500 500	U-152.4	17.0 16.5	7.8 7.5	.015	.38	.028	.71	.236	5.99	—	—	—	—
			2 Unshld 22 (7x30)	Blue, White														



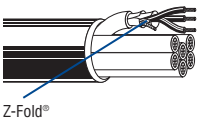
††(4) conductors cabled under 100% Beldfoil shield; (2) conductors unshielded.

22 AWG Stranded (7x30) TC Conductors • (3) Conductors Cabled and Separately Beldfoil® Shielded (100% Coverage) with Drain Wires▲																		
PVC Insulation • Chrome PVC Jacket																		
300V RMS 60°C VW-1	**8788**	NEC: CM	5: 3 Shld	Black, Red, Green	500	152.4	15.5	7.1	.015	.38	.028	.71	.236	5.99	34	112	—	—
			2 Unshld•	Yellow, Blue														



•(2) Unshielded conductors cabled around a non-hygroscopic filler.
▲Drain wire for each conductor is tinned cadmium bronze ribbon under 100% Beldfoil shield coverage.

22 AWG Triads Stranded (7x30) Tinned Copper Conductors • Cabled in Triads› • 22 AWG Stranded Tinned Copper Drain Wire																		
Polypropylene Insulation • Overall Chrome PVC Jacket																		
300V RMS 80°C VW-1	**9772**	—	36 (12 triads)	Black, Red, Green, Triads w/Color Coded Jackets	500	152.4	139.0	63.2	.008	.20	.060	1.52	.725	18.42	34	112	67	220



›Each triad shielded with 100% Beldfoil shield and drain wire, encased in a .020″ white PVC jacket with color coded stripes.

TC = Tinned Copper

*Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.

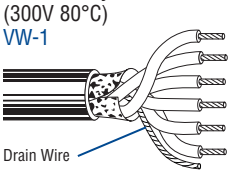
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Overall Shield

Data Cables for Molex SEMMCONN and AMP® SDL Connectors
Computers, Instrumentation and Medical Electronics Interconnect Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
26 AWG Stranded (7x34) Tinned Copper Conductors • Duofoil® Shield (100% Coverage) • 26 AWG Stranded Tinned Copper Drain Wire														
PVC Insulation • Black PVC Jacket														
UL AWM Style 2464 (300V 80°C) VW-1 	**1211A**	NEC: CL2X	4	White, Yellow, Orange, Green	500 1000	152.4 304.8	12.0 23.0	5.4 10.4	.015	.38	.036	.91	.195	4.95
	1212A	NEC: CL2X	6	Red, Blue, Green, Orange, Yellow, White	500 1000	152.4 304.8	14.5 30.0	6.6 13.6	.015	.38	.037	.93	.220	5.59
	1213A	NEC: CL2X	8	Black, Purple, Red, Blue, Green, Orange, Yellow, White	500 1000	152.4 304.8	12.0 24.0	5.4 10.4	.015	.38	.039	.98	.239	6.07
	1214A	NEC: CL2X	16	White & Red, White & Brown, White & Black, Black, Red, Brown, Purple, Blue, Green, Gray, Aqua, Tan, Pink, Orange, White, Yellow	1000	304.8	57.0	25.9	.015	.38	.035	.89	.301	7.65

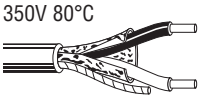
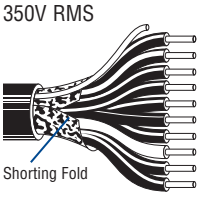
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Overall Shield

Direct Burial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
20 AWG Solid Tinned Copper Conductors • Conductors Cabled • Overall Beldfoil® Shield (100% Coverage) • 22 AWG Solid TC Drain Wire																		
Polypropylene Insulation • Black HDPE Jacket																		
350V 80°C 	**9802**	—	2	White, Black	500 1000	152.4 304.8	9.0 18.0	4.1 8.2	.013	.33	.035	.89	.190	4.83	32	104	42	138
Polypropylene Insulation • Black HDPE Jacket																		
350V RMS 	**9803**	—	3	White, Red, Black	1000	304.8	23.0	10.5	.013	.33	.035	.89	.205	5.21	23	75	42	138
	9890	—	10	See Chart 1 (Tech Info Section)	500 1000	152.4 304.8	33.0 65.0	15.0 29.5	.013	.33	.040	1.02	.310	7.87	23	75	42	138
	9894	—	15	See Chart 2 (Tech Info Section)	1000	304.8	96.0	43.6	.013	.33	.045	1.14	.390	9.91	23	75	42	138

HDPE = High-density Polyethylene • TC = Tinned Copper

*Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.

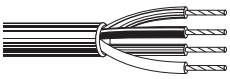
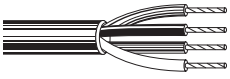
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Plenum-Rated

Unshielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
22 AWG Stranded (7x30) Tinned Copper Conductors • Conductors Cabled														
Plenum • FEP Insulation • Red FEP Jacket														
300V RMS 	**88444**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	100 500† 1000†	30.5 152.4 304.8	2.9 9.0 15.0	1.3 4.1 6.8	.006	.15	.010	.25	.121	3.07
Suitable for Outdoor and Direct Burial applications.														
Plenum • FEP Insulation • Natural Flamarrest® Jacket														
300V RMS 	**82444**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	U-500† U-1000† 1000†	U-152.4 U-304.8 304.8	9.0 16.0 15.0	4.1 7.3 6.8	.006	.15	.015	.38	.134	3.40
22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs														
Plenum • FEP Insulation • Red FEP Jacket														
300V RMS 	**88442**	NEC: CMP CEC: CMP FT6	2	Black, Red	100 500† 1000†	30.5 152.4 304.8	2.3 5.5 8.0	1.0 2.5 3.7	.006	.15	.012	.30	.102	2.59
Suitable for Outdoor and Direct Burial applications.														
Plenum • FEP Insulation • Natural Flamarrest Jacket														
300V RMS 	**82442**	NEC: CMP CEC: CMP FT6	2	Black, Red	U-1000† 1000†	U-304.8 304.8	9.0 8.0	4.1 3.7	.006	.15	.015	.38	.113	2.87
18 AWG Stranded (19x30) Tinned Copper Conductors • Conductors Cabled														
Plenum • FEP Insulation • Red FEP Jacket														
300V RMS 	**88489**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	500† 1000†	152.4 304.8	14.5 29.0	6.6 13.2	.007	.18	.009	.23	.161	4.09
Suitable for Outdoor and Direct Burial applications.														
Plenum • FEP Insulation • Natural Flamarrest Jacket														
300V RMS 	**82489**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	U-1000† 1000†	U-304.8 304.8	31.0 29.0	14.1 13.2	.007	.18	.014	.36	.170	4.32

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

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Plenum-Rated

Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
18 AWG Stranded (19x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 	**88770**	NEC: CMP CEC: CMP FT6	3	Black, White, Red	500† 1000†	152.4 304.8	16.0 32.0	7.3 14.6	.007	.18	.014	.36	.161	4.09	54	177	96	315
	89418	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	100 500† 1000†	30.5 152.4 304.8	5.5 18.0 36.0	2.5 8.2 16.4	.007	.18	.014	.36	.177	4.50	30	98	57	187
Suitable for Outdoor and Direct Burial applications.																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 	**82418**	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	U-1000†† 1000†	U-304.8 304.8	36.0 38.0	16.4 17.3	.007	.18	.014	.36	.176	4.47	30	98	63	207
Suitable for Outdoor applications.																		

TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.
††Length may vary 0 to -10%.

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Plenum-Rated

Overall Foil/Braid Shield
Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Conductors Cabled • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 	**83503**	NEC: CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	500† 1000†	152.4 304.8	9.5 16.0	4.3 7.3	.006	.15	.014	.36	.135	3.43	20	66	36	118
	83504	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	3.5 10.0 20.0	1.6 4.6 9.1	.006	.15	.014	.36	.144	3.66	20	66	36	118
	83506	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	500† 1000†	152.4 304.8	13.0 26.0	6.0 11.9	.006	.15	.014	.36	.165	4.19	20	66	36	118
	83509	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	5.3 17.0 38.0	2.4 7.8 17.3	.006	.15	.014	.36	.188	4.78	20	66	36	118
	83512	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	500† 1000†	152.4 304.8	21.0 45.0	9.6 20.4	.006	.15	.014	.36	.207	5.26	20	66	36	118
	83515	NEC: CMP CEC: CMP FT6	15	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	7.2 25.0 53.0	3.3 11.4 24.1	.006	.15	.014	.36	.227	5.77	20	66	36	118
Suitable for Outdoor and Direct Burial applications.																		
22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • Overall Beldfoil (100% Coverage) + TC Braid Shield (85% Coverage)																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 	**83552**	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	500† 1000†	152.4 304.8	8.0 16.0	3.7 7.3	.006	.15	.014	.36	.141	3.58	23	75	40	131
	83553	NEC: CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	3.5 11.5 20.0	1.6 5.2 9.1	.006	.15	.014	.36	.148	3.76	23	75	40	131
	83554	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	4.0 12.5 25.0	1.8 5.7 11.4	.006	.15	.014	.36	.159	4.04	23	75	40	131
	83556	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	5.2 16.5 36.0	2.4 7.5 16.3	.006	.15	.014	.36	.183	4.65	23	75	40	131
	83559	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	6.8 23.0 50.0	3.1 10.5 22.7	.006	.15	.014	.36	.209	5.31	23	75	40	131
	83562	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	500† 1000†	152.4 304.8	28.5 60.0	13.0 27.2	.006	.15	.015	.38	.234	5.94	23	75	40	131
	83569	NEC: CMP CEC: CMP FT6	19	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	9.6 44.0 85.0	4.4 20.0 38.6	.006	.15	.015	.38	.269	6.83	23	75	40	131
Suitable for Outdoor and Direct Burial applications.																		

*Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.
†Spools are one piece, but length may vary ±10% from length shown.

TC = Tinned Copper

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Plenum-Rated

Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
20 AWG Stranded (7x28) TC Conductors • Conductors Cabled • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 	**83602**	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	500† 1000†	152.4 304.8	11.0 22.0	5.0 10.0	.006	.15	.014	.36	.157	3.99	26	85	51	167
	83604	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	5.1 16.0 32.0	2.3 7.3 14.6	.006	.15	.014	.36	.178	4.52	26	85	51	167
	83606	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	6.2 21.5 47.0	2.8 9.8 21.3	.006	.15	.014	.36	.207	5.26	26	85	51	167
	83609	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	8.2 30.0 63.0	3.7 13.7 28.6	.006	.15	.014	.36	.238	6.05	26	85	51	167
	83612	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	7.8 35.0 67.0	3.5 15.9 30.4	.006	.15	.014	.36	.265	6.73	26	85	51	167
Suitable for Outdoor and Direct Burial applications.																		
18 AWG Stranded (19x30) TC Conductors • Conductors Cabled • Overall Beldfoil (100% Coverage) + TC Braid Shield (85% Coverage)																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 	**83652**	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	4.6 13.5 27.0	2.1 6.1 12.3	.007	.18	.014	.36	.175	4.45	33	108	60	197
	83653	NEC: CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	5.4 17.5 39.0	2.5 8.0 17.7	.007	.18	.014	.36	.184	4.67	33	108	60	197
	83654	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	6.2 21.5 46.0	2.8 9.8 20.9	.007	.18	.014	.36	.199	5.05	33	108	60	197
	83656	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	8.1 29.5 62.0	3.7 13.5 28.2	.007	.18	.014	.36	.234	5.94	33	108	60	197
	83659	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	9.8 45.0 88.0	4.4 20.4 40.0	.007	.18	.015	.38	.293	7.44	33	108	60	197
	83662	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	11.9 55.5 109.0	5.4 25.2 49.5	.007	.18	.015	.38	.308	7.82	33	108	60	197
Suitable for Outdoor and Direct Burial applications.																		

TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools are one piece, but length may vary ±10% from length shown.

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Plenum-Rated

Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
16 AWG Stranded (19x29) TC Conductors • Conductors Cabled • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 	**83702**	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	5.2 18.5 40.0	2.4 8.4 18.2	.007	.18	.014	.36	.196	4.98	35	115	63	207
	83703	NEC: CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	500† 1000†	152.4 304.8	23.0 50.0	10.5 22.7	.007	.18	.014	.36	.206	5.23	35	115	63	207
	83704	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	8.0 29.0 62.0	3.6 13.2 28.1	.007	.18	.014	.36	.223	5.66	35	115	63	207
	83706	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	9.7 44.5 87.0	4.4 20.2 39.5	.007	.18	.014	.36	.265	6.73	35	115	63	207
	83709	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	11.5 61.0 120.0	5.2 27.7 54.5	.007	.18	.014	.36	.307	7.80	35	115	63	207
	83712	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	14.8 78.0 153.0	6.8 35.4 69.5	.007	.18	.014	.36	.344	8.74	35	115	63	207
	83715	NEC: CMP CEC: CMP FT6	15	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	18.1 95.0 190.0	8.3 43.1 86.3	.007	.18	.014	.36	.407	10.34	35	115	63	207
	83719	NEC: CMP CEC: CMP FT6	19	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	21.8 113.5 227.0	9.9 51.5 103.0	.007	.18	.014	.36	.403	10.24	35	115	63	207

Suitable for Outdoor and Direct Burial applications.

TC = Tinned Copper

* Capacitance between conductors.

** Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary ±10% from length shown.

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High-Temperature

Unshielded
Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
20 AWG Stranded (7x28) Tinned Copper Conductors • Conductors Cabled														
Tefzel® Insulation • Clear Tefzel Jacket														
300V RMS 150°C VW-1	**85220**	—	2	Black, Red	100 1000 †	30.5 304.8	3.8 23.0	1.7 10.4	.015	.38	.020	.51	.185	4.70
16 AWG Stranded (19x29) Tinned Copper Conductors • Conductors Cabled														
Tefzel Insulation • Clear Tefzel Jacket														
300V RMS 150°C VW-1	**85221**	—	2	Black, Red	500 † 1000 †	152.4 304.8	15.0 34.0	6.8 15.4	.015	.38	.019	.48	.211	5.36
	85102	—	2	See Chart 2 (Tech Info Section)	500 † 1000 †	152.4 304.8	14.0 32.0	6.4 14.5	.015	.38	.019	.48	.211	5.36
	85103	—	3	See Chart 2 (Tech Info Section)	500 † 1000 †	152.4 304.8	20.0 43.0	9.1 19.5	.015	.38	.019	.48	.223	5.66
	85105	—	5	See Chart 2 (Tech Info Section)	500 † 1000 †	152.4 304.8	35.0 68.0	15.9 30.9	.015	.38	.019	.48	.268	6.81
	85107	—	7	See Chart 2 (Tech Info Section)	100 1000 †	30.5 304.8	11.5 105.0	5.2 47.7	.015	.38	.024	.61	.303	7.70
	85109	—	9	See Chart 2 (Tech Info Section)	500 † 1000 †	152.4 304.8	59.0 119.0	26.8 54.0	.015	.38	.024	.61	.354	8.99





† Spools are one piece, but length may vary ±10% from length shown.

Tefzel insulated and jacketed cables are particularly well suited for harsh environments due to outstanding mechanical toughness of the material, as well as its high-temperature and radiation resistant characteristics.

Tefzel cables are used extensively in chemical plants, nuclear plants, and fossil fuel power plants. Typical applications are data recording, communication, telemetering, and monitoring pressure or material flow.

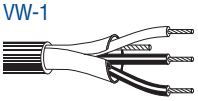
Tefzel is a DuPont trademark.

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High-Temperature

Overall Beldfoil® Shield
Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • Special Beldfoil Shield (100% Coverage) • 22 AWG (7x30) Stranded TC Drain Wire																		
FEP Insulation • Red Silicone Rubber Jacket • Noise Reducing Tape																		
Jacket working voltage 2000V DC, shield to ground VW-1 	**83394**	AWM 4516	2	Black, White	100 U-500† 500†	30.5 U-152.4 152.4	3.6 14.5 13.0	1.6 6.6 5.9	.015	.38	.030	.76	.199	5.05	22	72	40	131
70°C (min.) to 150°C (max.) operating temperature.																		
Jacket working voltage 2000V DC, shield to ground VW-1 	**83395**	AWM 4516	3	Black, Red, White	100 500†	30.5 152.4	3.9 14.0	1.8 6.4	.015	.38	.031	.79	.208	5.28	22	72	40	131
	83396	AWM 4516	4	Black, White, Red, Green	100 500†	30.5 152.4	3.9 16.0	1.8 7.3	.015	.38	.030	.76	.217	5.51	22	72	40	131
70°C (min.) to 150°C (max.) operating temperature.																		
20 AWG Stranded (7x28) TC Conductors • Twisted Pair • Special Beldfoil Shield (100% Coverage) • 20 AWG (7x28) Stranded TC Drain Wire																		
FEP Insulation • Yellow Silicone Rubber Jacket • Noise Reducing Tape																		
Jacket working voltage 2000V DC, shield to ground VW-1 	**83393**	AWM 4516	2	Black, Red	100†† U-500 500†	30.5 U-152.4 152.4	4.2 18.5 17.0	1.9 8.4 7.8	.020	.51	.030	.76	.242	6.15	22	72	40	131
70°C (min.) to 150°C (max.) operating temperature.																		
20 AWG Stranded (7x28) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • Drain Wire																		
Tefzel® Insulation • Clear Tefzel Jacket																		
300V RMS 150°C VW-1 	**85230**	—	2	Black, Red	500† 1000†	152.4 304.8	12.5 29.0	5.7 13.2	.015	.38	.020	.51	.182	4.62	31	102	59	194
300V RMS 150°C VW-1 	**85240**	—	3	Black, Red, Green	100 1000†	30.5 304.8	4.6 30.0	2.1 13.6	.015	.38	.020	.51	.193	4.90	27	87	48	157
16 AWG Stranded (19x29) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • Drain Wire																		
Tefzel Insulation • Clear Tefzel Jacket																		
300V RMS 150°C VW-1 	**85231**	—	2	Black, Red	100 500† 1000†	30.5 152.4 304.8	5.6 17.0 38.0	2.5 7.8 17.3	.020	.51	.020	.51	.210	5.33	44	144	79	259
300V RMS 150°C VW-1 	**85241**	—	3	Black, Red, Green	500† 1000†	152.4 304.8	22.5 49.0	10.3 22.3	.020	.51	.020	.51	.223	5.66	34	112	61	201

TC = Tinned Copper

*Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.
††100 ft. put-up one piece, exact length.

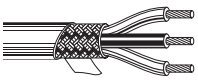
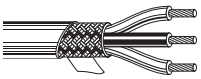
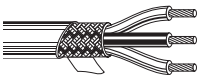
Tefzel and Kapton are DuPont trademarks.

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High-Temperature

Overall Braid Shield — Control and Instrumentation Cables
MIL-W-16878/4 (Type E) — Individual Conductors

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
26 AWG Stranded (7x34) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)																		
Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket																		
600V RMS -65°C to 200°C VW-1 	**83303E**	—	1	White	500 ††	152.4	3.5	1.6	.010	.25	.010	.25	.076	1.93	—	—	44.6	146
					1000 ▲	304.8	6.0	2.7										
	83317E	—	2	White, Black	100 †	30.5	1.4	0.6	.010	.25	.011	.28	.121	3.07	20.8	68	35.5	116
					500 ††	152.4	6.5	3.0										
					1000 ▲	304.8	14.0	6.4										
	83332E	—	3	White, Black, Red	100 †	30.5	1.7	0.8	.010	.25	.011	.28	.127	3.23	18.8	62	31.4	103
					1000 ▲	304.8	17.0	7.7										
	83347E	—	4	White, Black, Red, Green	100 †	30.5	1.9	0.9	.010	.25	.011	.28	.137	3.48	18.5	61	30.5	100
					500 ††	152.4	10.0	4.5										
					1000 ▲	304.8	19.0	8.6										
MIL-Spec MIL-W-16878/4 (Type E).																		
24 AWG Stranded (19x36) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)																		
Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket																		
600V RMS -65°C to 200°C VW-1 	**83304E**	—	1	White	500 ††	152.4	4.5	2.0	.010	.25	.010	.25	.085	2.16	—	—	46	151
					1000 ▲	304.8	8.0	3.6										
	83318E	—	2	White, Black	100 †	30.5	1.6	0.7	.010	.25	.011	.28	.131	3.33	26.5	87	42.4	139
					500 ††	152.4	7.5	3.4										
					1000 ▲	304.8	16.0	7.3										
	83333E	—	3	White, Black, Red	100 †	30.5	1.9	0.9	.010	.25	.011	.28	.137	3.48	21.9	72	36.8	121
					500 ††	304.8	10.0	4.5										
					1000 ▲	304.8	19.0	8.6										
	83348E	—	4	White, Black, Red, Green	100 †	30.5	2.3	1.0	.010	.25	.011	.28	.149	3.79	21.9	72	36.8	121
					500 ††	152.4	12.0	5.4										
					1000 ▲	304.8	23.0	10.4										
Complies with MIL-W-16878/4 (Type E) except stranding.																		
22 AWG Stranded (19x34) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)																		
Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket																		
600V RMS -65°C to 200°C VW-1 	**83305E**	—	1	White	100 †	30.5	1.1	0.5	.010	.25	.010	.25	.091	2.31	—	—	57.9	190
					500 ††	152.4	5.0	2.3										
					1000 ▲	304.8	9.0	4.1										
	83319E	—	2	White, Black	100 †	30.5	1.9	0.9	.010	.25	.011	.28	.143	3.63	29.9	98	49.2	161
					500 ††	152.4	10.0	4.5										
					1000 ▲	304.8	19.0	8.6										
	83334E	—	3	White, Black, Red	100 †	30.5	2.7	1.2	.010	.25	.011	.28	.150	3.81	27.4	90	45.7	150
					500 ††	152.4	12.5	5.7										
					1000 ▲	304.8	24.0	10.9										
	83349E	—	4	White, Black, Red, Green	100 †	30.5	3.1	1.4	.010	.25	.011	.28	.163	4.14	27.4	90	45.7	150
					500 ††	152.4	14.5	6.6										
					1000 ▲	304.8	28.0	12.7										
Complies with MIL-W-16878/4 (Type E) except stranding.																		

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

† 100 ft. put-up one piece, exact length.
†† 500 ft. put-up exact, but may contain up to 3 pieces. Minimum length of any one piece is 25 ft.
▲ Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

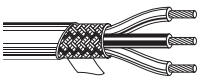
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High-Temperature

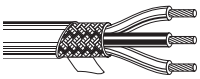
Overall Braid Shield — Control and Instrumentation Cables
MIL-W-16878/4 (Type E) — Individual Conductors

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
20 AWG Stranded (19x32) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)																		
Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket																		
600V RMS -65°C to 200°C VW-1	**83306E**	—	1	White	100†	30.5	1.4	0.6	.010	.25	.010	.25	.099	2.52	—	—	69	226
					1000▲	304.8	14.0	6.4										
	83320E	—	2	White, Black	100†	30.5	2.6	1.2	.010	.25	.011	.28	.159	4.04	31.7	104	51	167
					500††	152.4	12.0	5.4										
					1000▲	304.8	23.0	10.4										
	83335E	—	3	White, Black, Red	100†	30.5	3.3	1.5	.010	.25	.011	.28	.168	4.27	31.7	104	51	167
					500††	152.4	15.5	7.0										
					1000▲	304.8	30.0	13.6										
	83350E	—	4	White, Black, Red, Green	100†	30.5	4.0	1.8	.010	.25	.011	.28	.183	4.65	31.7	104	51	167
					500††	152.4	19.0	8.6										
					1000▲	304.8	37.0	16.8										
Complies with MIL-W-16878/4 (Type E) except stranding.																		



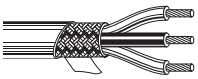
18 AWG Stranded (19x30) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket																		
600V RMS -65°C to 200°C VW-1	**83307E**	—	1	White	1000▲	304.8	17.0	7.7	.011	.28	.010	.25	.109	2.77	—	—	71.5	235
	83321E	—	2	White, Black	100†	30.5	3.2	1.5	.011	.28	.011	.28	.179	4.55	31	102	52.8	173
					500††	152.4	15.0	6.8										
					1000▲	304.8	29.0	13.2										
	83336E	—	3	White, Black, Red	100†	30.5	4.2	1.9	.011	.28	.011	.28	.189	4.80	31	102	52.8	173
					500††	152.4	20.0	9.1										
					1000▲	304.8	39.0	17.7										
	83351E	—	4	White, Black, Red, Green	100†	30.5	5.2	2.4	.011	.28	.011	.28	.207	5.26	31	102	52.8	173
					500††	152.4	25.0	11.3										
					1000▲	304.8	51.0	23.1										
Complies with MIL-W-16878/4 (Type E) except stranding.																		



16 AWG Stranded (19x29) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket																		
600V RMS -65°C to 200°C VW-1	**83308E**	—	1	White	500††	152.4	9.5	4.3	.012	.31	.011	.28	.120	3.05	—	—	72.5	238
					1000▲	304.8	20.0	9.1										
	83322E	—	2	White, Black	100†	30.5	3.8	1.7	.012	.31	.011	.28	.197	5.00	36	118	60	197
					500††	152.4	18.0	8.2										
					1000▲	304.8	35.0	15.9										
	83337E	—	3	White, Black, Red	100†	30.5	5.0	2.3	.012	.31	.011	.28	.209	5.31	30.7	101	53	174
					500††	152.4	24.5	11.1										
					1000▲	304.8	49.0	22.2										
	83352E	—	4	White, Black, Red, Green	100†	30.5	6.2	2.8	.012	.31	.011	.28	.229	5.82	30.2	99	50.8	167
					500††	152.4	30.5	13.8										
					1000▲	304.8	61.0	27.7										
Complies with MIL-W-16878/4 (Type E) except stranding.																		



*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

†100 ft. put-up one piece, exact length.
††500 ft. put-up exact, but may contain up to 2 pieces. Minimum length of any one piece is 25 ft.
▲1000 ft. put-up exact, but may contain up to 6 pieces. Minimum length of any one piece is 25 ft.

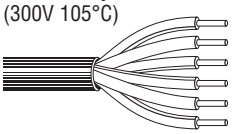
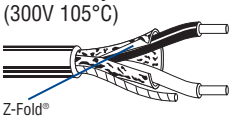
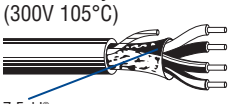
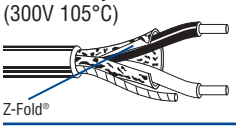
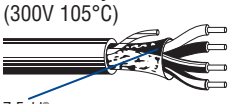
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Fire Alarm

Power-Limited Fire Protective Signaling Circuit Cables
Subject 1424 (NEC Article 760, Type FPLR)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
22 AWG Solid Tinned Copper Conductors • Conductors Cabled														
PVC Insulation • Black PVC Jacket														
UL AWM Style 2464 & 1424 (300V 105°C) 	**9576**	NEC: MPR, FPLR CEC: FAS 105 FT4	6	See Chart 1 (Tech Info Section)	U-500 U-1000	U-152.4 U-304.8	18.0 35.0	8.2 15.9	.013	.33	.039	.99	.234	5.94
18 AWG Solid Bare Copper Conductors • Conductors Cabled														
PVC Insulation • Red PVC Jacket														
UL AWM Style 2464 & 1424 (300V 105°C) 	**9571**	NEC: MPR, FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 U-1000	U-152.4 U-304.8	14.5 28.0	6.6 12.7	.017	.43	.037	.94	.228	5.79
18 AWG Solid Bare Copper Conductors • Conductors Cabled • Overall Beldfoil® Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire														
PVC Insulation • Red PVC Jacket														
UL AWM Style 2464 & 1424 (300V 105°C)  Z-Fold®	**9574**	NEC: MPR, FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 U-1000	U-152.4 U-304.8	16.0 31.0	7.3 14.1	.017	.43	.037	.94	.231	5.87
UL AWM Style 2464 & 1424 (300V 105°C)  Z-Fold®	**9578**	NEC: MPR, FPLR CEC: FAS 105 FT4	4	Black, Red, Yellow, Light Blue	U-500 1000	U-152.4 304.8	25.5 51.0	11.6 23.2	.017	.43	.037	.94	.263	6.68
16 AWG Solid Bare Copper Conductors • Conductors Cabled														
PVC Insulation • Red PVC Jacket														
UL AWM Style 2464 & 1424 (300V 105°C) 	**9572**	NEC: MPR, FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 U-1000	U-152.4 U-304.8	18.0 35.0	8.2 15.9	.018	.46	.037	.94	.250	6.35
16 AWG Solid Bare Copper Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire														
PVC Insulation • Red PVC Jacket														
UL AWM Style 2464 & 1424 (300V 105°C)  Z-Fold®	**9575**	NEC: MPR, FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 U-1000	U-152.4 U-304.8	20.0 39.0	9.1 17.7	.018	.46	.037	.94	.253	6.43
UL AWM Style 2464 & 1424 (300V 105°C)  Z-Fold®	**9579**	NEC: MPR, FPLR CEC: FAS 105 FT4	4	Black, Red, Yellow, Light Blue	U-500 1000	U-152.4 304.8	35.5 72.0	16.1 32.7	.018	.46	.042	1.07	.301	7.65

TC = Tinned Copper

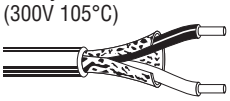
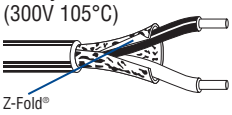
All cables on this page pass the IEEE 383-2003 Flame Test and are listed by the California State Fire Marshall. Component Recognized UL2464.

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Fire Alarm

Power-Limited Fire Protective Signaling Circuit Cables
Subject 1424 (NEC Article 760, Type FPLR)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
14 AWG Solid Bare Copper Conductors • Conductors Cabled														
PVC Insulation • Red PVC Jacket														
UL Style 1424 (300V 105°C) 	**9580**	NEC: FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 1000	U-152.4 304.8	27.0 54.0	12.3 24.5	.022	.56	.042	1.07	.303	7.70
14 AWG Solid Bare Copper Conductors • Conductors Cabled • Beldfoil® Shield (100% Coverage)														
PVC Insulation • Red PVC Jacket														
UL Style 1424 (300V 105°C) 	**9581**	NEC: FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 1000	U-152.4 304.8	32.5 65.0	14.7 29.5	.022	.56	.042	1.07	.306	7.77
12 AWG Solid Bare Copper Conductors • Conductors Cabled														
PVC Insulation • Red PVC Jacket														
UL Style 1424 (300V 105°C) 	**9582**	NEC: FPLR CEC: FAS 105 FT4	2	Black, Red	1000	304.8	75.0	34.1	.022	.56	.042	1.07	.340	8.64
12 AWG Solid Bare Copper Conductors • Conductors Cabled • Beldfoil Shield (100% Coverage)														
PVC Insulation • Red PVC Jacket														
UL Style 1424 (300V 105°C)  Z-Fold®	**9583**	NEC: FPLR CEC: FAS 105 FT4	2	Black, Red	1000	304.8	85.0	38.6	.022	.56	.042	1.07	.343	8.71

All cables on this page pass the IEEE 383-2003 Flame Test and are listed by the California State Fire Marshall. Component Recognized UL2464, 300V 80°C.

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Plenum-Rated Fire Alarm

Power-Limited Fire Protective, Control and Instrumentation Cables
Subject 1424 (NEC Article 760, Type FPLP)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
14 AWG Stranded (7x22) TC Conductors • Conductors Cabled • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)																		
Plenum • FEP Insulation • Red FEP Jacket																		
UL Style 2464 & 1424 (300V 200°C) 	**83752**	NEC: FPLP, CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	7.1 31.5 60.0	3.2 14.3 27.2	.016	.41	.015	.38	.267	6.78	30	98	52	171
	83753	NEC: FPLP, CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	500† 1000†	152.4 304.8	42.5 82.0	19.3 37.2	.016	.41	.015	.38	.284	7.21	30	98	52	171
	83754	NEC: FPLP, CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	9.8 52.5 102.0	4.5 23.8 46.3	.016	.41	.015	.38	.311	7.90	30	98	52	171
	83756	NEC: FPLP, CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	14.1 74.5 150.0	6.4 34.0 68.1	.016	.41	.017	.43	.376	9.55	30	98	52	171
12 AWG Stranded (7x20) TC Conductors • Conductors Cabled • Overall Beldfoil (100% Coverage) + TC Braid Shield (85% Coverage)																		
Plenum • FEP Insulation • Red FEP Jacket																		
UL Style 2464 & 1424 (300V 200°C) 	**83802**	NEC: FPLP, CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	7.5 41.0 80.0	3.4 18.6 36.3	.016	.41	.015	.38	.303	7.70	32	105	55	180
	83803	NEC: FPLP, CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	10.6 56.5 111.0	4.8 25.7 50.4	.016	.41	.015	.38	.323	8.20	32	105	55	180
	83804	NEC: FPLP, CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	13.8 73.0 147.0	6.3 33.1 66.7	.016	.41	.017	.43	.359	9.12	32	105	55	180
	83806	NEC: FPLP, CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 1000†	30.5 304.8	19.7 213.0	9.0 96.7	.016	.41	.017	.43	.430	10.92	32	105	55	180

TC = Tinned Copper

All cables on this page pass the IEEE 383-2003 Flame Test and are listed by the California State Fire Marshall. Component Recognized UL2464, 300V 80°C.

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools are one piece, but length may vary ±10% from length shown.

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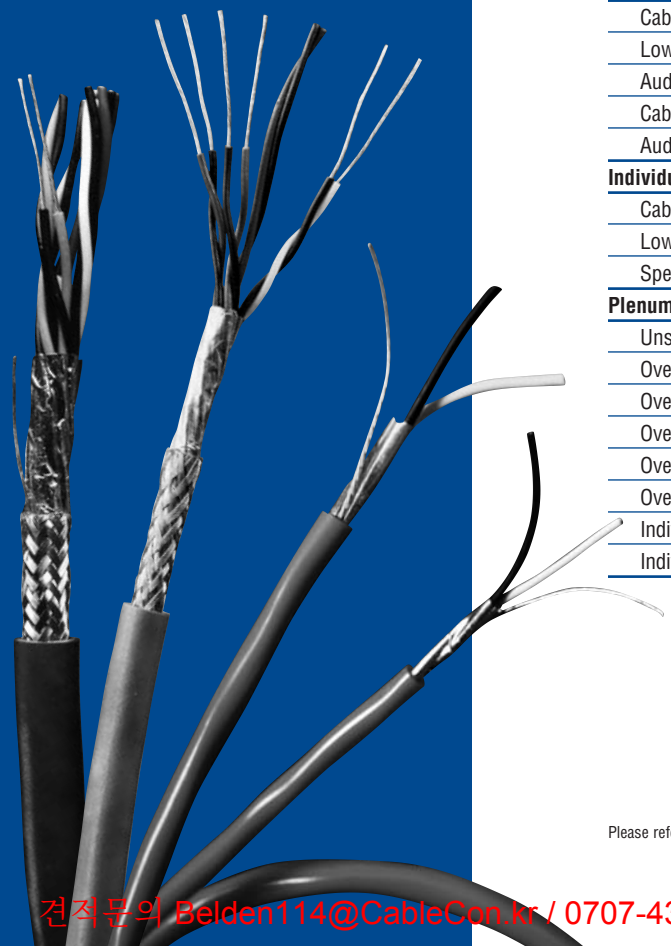
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5 Paired Cables

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Please refer to “Terms of Use of Master Catalog” on page 22.22

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Introduction

Belden® paired cable products are manufactured in a variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions to meet the technical requirements of many different types of systems.

Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than multi-conductor cables.

As an aid to proper cable selection, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable paired cable selection.

Most of our paired cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a paired cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Paired Cables Packaging

Belden's unique UnReel® cable dispenser is available for many of the paired cable products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

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Selection Guide

Shielded Multi-Pair Computer Cables
RS-232, RS-422, and RS-485 Applications*

Specifications		Cable Series** 9804	8132	9829	8332	9501	8102	9729	8162	9990	9841	9680	9302◆	8302	8777	9873	9773	8132FO	1419A
Conductor Size: (AWG)	28	✓	✓															✓	
	24			✓	✓	✓	✓	✓	✓	✓	✓	✓							✓
	22												✓	✓	✓				
	20															✓			
	18																✓		
Page No.		5.26	5.27	5.30	5.29	5.11	5.31	5.35	5.44	5.37	5.28	5.15	5.17	5.32	5.40	5.42	5.42	5.14	5.15
Insulation:	S-R PVC				✓	✓								✓					
	Polyethylene			✓						✓	✓	✓				✓	✓		
	Polypropylene	✓													✓				
	Datalene®†		✓				✓	✓	✓									✓	✓
Shield:	Overall Foil					✓						✓	✓					✓	✓
	Individual Foil							✓	✓	✓					✓	✓	✓		
	Overall Foil/Braid	✓	✓	✓	✓		✓		✓		✓			✓					
	Braid Coverage	90%	65%	65%	65%		65%		65%		90%			65%					
Drain Wire: (see key below)		●	●	●	×	●	●	▲	▲	▲	●	●	●	×	▲	▲	▲	●	●
No. of Pairs Available:	1					✓					✓								
	2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓				✓	✓
	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓				✓	✓
	5	✓	✓	✓	✓	✓	✓		✓					✓				✓	✓
	6			✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓
	7	✓		✓	✓	✓	✓		✓					✓					
	8		✓			✓	✓		✓					✓				✓	
	9	✓		✓		✓		✓		✓		✓	✓		✓	✓	✓		
	10			✓	✓	✓	✓		✓					✓					
	11							✓							✓	✓			
	12	✓		✓				✓		✓					✓	✓	✓		
	12.5		✓		✓		✓					✓		✓				✓	✓
	13	✓																	
	15				✓	✓	✓	✓	✓				✓	✓	✓	✓	✓		✓
	17							✓							✓				
	18	✓	✓	✓	✓		✓		✓					✓				✓	
	19					✓		✓					✓		✓				
	25	✓	✓	✓	✓	✓	✓		✓	✓				✓				✓	
	27							✓					✓		✓				
	31	✓																	
	37														✓				
	50					✓													
Capacitance†† (pF/ft.)		15.5	11.0	15.5	30.0	30.0	12.5	12.5	12.5	25.0	12.8	15.5	35.0	35.0	30.0	30.0	30.0	11.0	13.0

S-R = Semi-rigid

*Refer to specifications for recommendations.
**All cables are UL-listed.

†Foam high density polyethylene.
††Capacitance may vary on some cables.

◆Standard PVC Insulation, solid conductors.

Drain Wire Key:

● = Drain wire overall.
▲ = Drain wire each pair.
× = No drain wire.

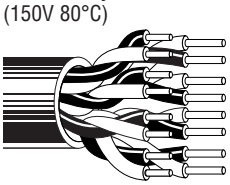
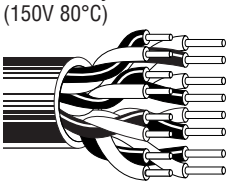
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Unshielded

Telephone Cables

Audio, Control and Instrumentation Cables

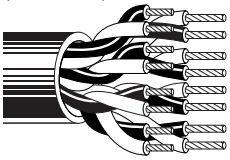
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
24 AWG Solid Tinned Copper Conductors • Twisted Pairs														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2576 (150V 80°C) 	**9562**	NEC: CMG CEC: CMG FT4	2	See Chart 4 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	10.5 9.0 20.0 18.0	4.8 4.1 9.1 8.2	.010	.25	.032	.81	.199	5.05
	9566	NEC: CMG CEC: CMG FT4	6	See Chart 4 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	21.5 23.5 42.0 45.0	9.8 10.7 19.1 20.5	.010	.25	.032	.81	.289	7.34
	9570	NEC: CMG CEC: CMG FT4	10	See Chart 4 (Tech Info Section)	500 1000	152.4 304.8	31.5 63.0	14.3 28.6	.010	.25	.035	.89	.310	7.87
	9585	NEC: CMG CEC: CMG FT4	25	See Chart 4 (Tech Info Section)	500 1000	152.4 304.8	74.0 144.0	33.6 65.5	.010	.25	.040	1.02	.480	12.19
22 AWG Solid Tinned Copper Conductors • Twisted Pairs														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2576 (150V 80°C) 	**8740**	NEC: CMG CEC: CMG FT4	1	See Chart 3 (Tech Info Section)	U-500 U-1000	U-152.4 U-304.8	7.5 14.0	3.4 6.4	.010	.25	.032	.81	.156	3.96
	8741	NEC: MPG, CMG CEC: CMG FT4	2	See Chart 3 (Tech Info Section)	U-500 U-1000 1000	U-152.4 U-304.8 304.8	13.5 25.0 27.0	6.1 11.3 12.2	.010	.25	.032	.81	.230	5.84
											For stranded conductor Plenum versions of 8741, see 88741 or 82741.			
	8742	NEC: MPG, CMG CEC: CMG FT4	3	See Chart 3 (Tech Info Section)	500 U-1000 1000	152.4 U-304.8 304.8	17.0 31.0 33.0	7.7 14.1 15.0	.010	.25	.032	.81	.242	6.15
											For stranded conductor Plenum version of 8742, see 82742.			
	8757	NEC: MPG, CMG CEC: CMG FT4	4	See Chart 3 (Tech Info Section)	500 U-1000 1000	152.4 U-304.8 304.8	20.0 38.0 40.0	9.1 17.2 18.2	.010	.25	.032	.81	.264	6.71
											For stranded conductor Plenum versions of 8757, see 88757 or 82757.			
	8743	NEC: MPG, CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	U-500 U-1000 1000	U-152.4 U-304.8 304.8	26.5 51.0 53.0	12.0 23.1 24.1	.010	.25	.032	.81	.293	7.44
											For stranded conductor Plenum version of 8743, see 82743.			
	9160	NEC: MPG, CMG CEC: CMG FT4	8	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	35.5 71.0	16.1 32.3	.010	.25	.035	.89	.323	8.20
	8744	NEC: MPG, CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	1000	304.8	79.0	35.9	.010	.25	.035	.89	.350	8.89

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Unshielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2576 (150V 80°C) 	**9744**	NEC: CMG CEC: CMG FT4	2	See Chart 3 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	13.5 14.0 26.0 27.0	6.1 6.4 11.8 12.3	.010	.25	.032	.81	.244	6.20
	9745	NEC: CMG CEC: CMG FT4	3	See Chart 3 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	18.0 18.0 34.0 36.0	8.2 8.2 15.4 16.4	.010	.25	.032	.81	.257	6.53
	9746	NEC: CMG CEC: CMG FT4	4	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	22.5 42.0	10.2 19.1	.010	.25	.032	.81	.281	7.14
	8747	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.2 30.0 59.0	2.8 13.6 26.8	.010	.25	.035	.89	.320	8.13
	8748	NEC: CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.6 43.5 84.0	3.9 19.8 38.2	.010	.25	.037	.94	.389	9.88
	9747	NEC: CMG CEC: CMG FT4	12	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.5 55.0 109.0	5.2 25.0 49.5	.010	.25	.040	1.02	.425	10.80
	8749	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	64.0 124.0	29.1 56.4	.010	.25	.040	1.02	.440	11.18
	8748	NEC: CMG CEC: CMG FT4	19	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	81.5 159.0	37.0 72.3	.010	.25	.040	1.02	.505	12.83
	8750	NEC: CMG CEC: CMG FT4	27	See Chart 3 (Tech Info Section)	1000†	304.8	221.0	100.5	.010	.25	.045	1.14	.575	14.61

†Spools are one piece, but length may vary -0% to +20% from length shown.

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Unshielded

Audio, Control and Instrumentation Cables
Plenum-Rated

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs														
Plenum • FEP Insulation • Red FEP Jacket														
300V RMS 	**88442**	NEC: CMP CEC: CMP FT6	1	Black & Red	100 500† 1000†	30.5 152.4 304.8	2.3 5.5 8.0	1.0 2.5 3.6	.006	.15	.012	.30	.102	2.59
	88741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	500† 1000†	152.4 304.8	8.0 16.0	3.6 7.3	.006	.15	.012	.30	.169	4.29
	88757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	500† 1000†	152.4 304.8	14.0 28.0	6.4 12.7	.006	.15	.019	.23	.200	5.08
Plenum • FEP Insulation • Natural Flamarrest® Jacket														
300V RMS 	**82442**	NEC: CMP CEC: CMP FT6	1	Black & Red	U-1000† 1000†	U-304.8 304.8	9.0 8.0	4.1 3.6	.006	.15	.014	.36	.112	2.84
	82741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	U-1000† 1000†	U-304.8 304.8	18.0 20.0	8.2 9.1	.006	.15	.014	.36	.179	4.55
	82742	NEC: CMP CEC: CMP FT6	3	Black & Red, Black & White, Black & Green	U-1000† 1000†	U-304.8 304.8	24.0 26.0	10.9 11.8	.006	.15	.014	.36	.191	4.85
	82757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	1000†	304.8	32.0	14.5	.006	.15	.014	.36	.210	5.33
	82743	NEC: CMP CEC: CMP FT6	6	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown	U-1000† 1000†	U-304.8 304.8	44.0 46.0	20.0 20.9	.006	.15	.015	.38	.238	6.05

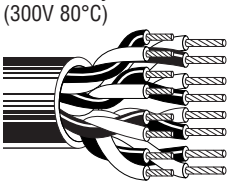
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

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Unshielded

Audio, Control and Instrumentation Cables

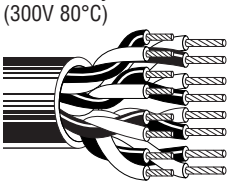
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
20 AWG Stranded (7x28) Tinned Copper Conductors • Twisted Pairs														
PVC Insulation • Chrome PVC Jacket														
300V RMS 	**8205**	NEC: CMG CEC: CMG FT4	1	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.6 9.0 9.0 18.0 18.0	1.2 4.1 4.1 8.2 8.2	.013	.33	.025	.64	.180	4.57
UL AWM Style 2464 (300V 80°C) 	**9750**	NEC: CMG CEC: CMG FT4	3	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	26.5 50.0	12.0 22.7	.013	.33	.035	.89	.299	7.59
	9751	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.1 45.0 89.0	4.1 20.5 40.5	.013	.33	.035	.89	.366	9.30
	9752	NEC: CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.1 65.5 125.0	5.9 29.8 56.8	.013	.33	.035	.89	.429	10.90
	9755	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	100 1000	30.5 304.8	17.9 194.0	8.1 88.2	.013	.33	.040	1.02	.545	13.84
19 AWG Solid Bare Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
300V RMS 	**8486**	NEC: CM CEC: CM	1	Brown, Tan	U-500 U-1000 1000	U-152.4 U-304.8 304.8	9.5 18.0 19.0	4.3 8.2 8.6	.015	.38	.025	.64	.182	4.62
18 AWG Stranded (7x26) Tinned Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
300V RMS 	**8461**	NEC: CMG CEC: CMG FT4	1	Black, White	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.2 14.0 13.5 26.0 27.0	1.4 6.4 6.1 11.8 12.2	.022	.56	.028	.71	.234	5.94

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Unshielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
18 AWG Stranded (16x30) Tinned Copper Conductors • Twisted Pairs														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2464 (300V 80°C) 	**9740**	NEC: CMG CEC: CMG FT4	1	See Chart 3 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	12.5 12.5 24.0 24.0	5.7 5.7 10.9 10.9	.014	.36	.032	.81	.210	5.33
											For Plenum versions of 9740, see 89740, 87740 or 82740.			
	9156	NEC: CMG CEC: CMG FT4	2	See Chart 3 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	25.0 27.0 49.0 51.0	11.3 12.2 22.2 23.2	.014	.36	.035	.89	.333	8.46
	8690	NEC: CMG CEC: CMG FT4	3	See Chart 3 (Tech Info Section)	100 U-500 500 1000	30.5 U-152.4 152.4 304.8	7.0 32.5 34.0 65.0	3.2 14.8 15.4 29.5	.014	.36	.032	.81	.347	8.81
	9157	NEC: CMG CEC: CMG FT4	4	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.4 41.0 83.0	3.8 18.6 37.7	.014	.36	.032	.81	.381	9.68
	9159	NEC: CMG CEC: CMG FT4	5	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	50.0 99.0	22.7 45.0	.014	.36	.032	.81	.391	9.93
	8691	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	58.0 115.0	26.4 52.3	.014	.36	.032	.81	.433	11.00
	9161	NEC: CMG CEC: CMG FT4	8	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	14.2 78.0 152.0	6.4 35.6 69.3	.014	.36	.037	.94	.485	12.32
	8692	NEC: CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	87.0 170.0	39.5 77.3	.014	.36	.040	1.02	.524	13.31
	9741	NEC: CMG CEC: CMG FT4	12	See Chart 3 (Tech Info Section)	100 1000	30.5 304.8	25.4 220.0	11.5 99.8	.014	.36	.046	1.17	.600	15.24
	9742	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	30.9 146.5 291.0	14.0 66.5 132.0	.014	.36	.051	1.30	.677	17.20
	9743	NEC: CMG CEC: CMG FT4	19	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	37.0 179.0 355.0	16.8 81.4 161.4	.014	.36	.055	1.40	.721	18.31

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Unshielded

Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
18 AWG Stranded (19x30) Tinned Copper Conductors • Twisted Pair														
Plenum • FEP Insulation • Red FEP Jacket														
300V RMS	**89740**	NEC: CMP CEC: CMP FT6	1	Black, Red	100 500† 1000†	30.5 152.4 304.8	3.0 9.0 15.0	1.4 4.1 6.8	.006	.17	.009	.23	.136	3.45
Plenum • FEP Insulation • Red Fluorocopolymer Jacket														
300V RMS	**87740**	NEC: CMP CEC: CMP FT6	1	Black, Red	500† 1000†	152.4 304.8	9.0 15.0	4.1 6.8	.006	.17	.011	.28	.140	3.56
Plenum • FEP Insulation • Natural Flamarrest® Jacket														
300V RMS	**82740**	NEC: CMP CEC: CMP FT6	1	Black, Red	U-1000 1000†	U-304.8 304.8	17.0 16.0	7.7 7.3	.006	.17	.015	.38	.147	3.73
16 AWG Stranded (19x29) Tinned Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2598 (300V 60°C)	**8471**	NEC: CMG CEC: CMG FT4	1	Black, White	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	21.0 20.0 41.0 43.0	9.5 9.1 18.6 19.5	.023	.58	.032	.81	.274	6.96
14 AWG Stranded (42x30) Tinned Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2587 (600V 90°C)	**8473**	NEC: CL3 CEC: FAS 90 FT4	1	Black, White	U-500 500 1000	U-152.4 152.4 304.8	29.0 30.5 58.0	13.2 13.9 26.4	.031	.79	.032	.81	.340	8.64
See NEC Guidelines for applicable CL3 voltage ratings.														
12 AWG Stranded (65x30) Tinned Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2587 (600V 90°C)	**8477**	NEC: CL3R	1	Black, White	U-500 500 1000	U-152.4 152.4 304.8	41.5 43.5 85.0	18.8 19.7 38.6	.032	.81	.035	.89	.386	9.80
See NEC Guidelines for applicable CL3 voltage ratings.														

†Spools are one piece, but length may vary ±10% from length shown.

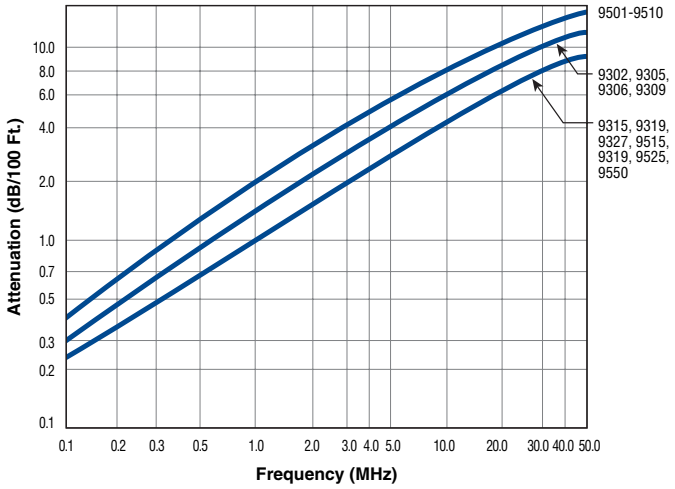
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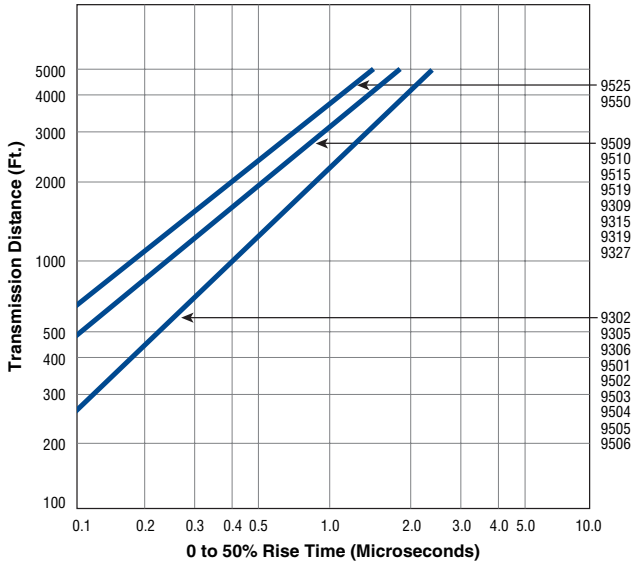
Overall Beldfoil® Shield

Cable Characteristics

Attenuation

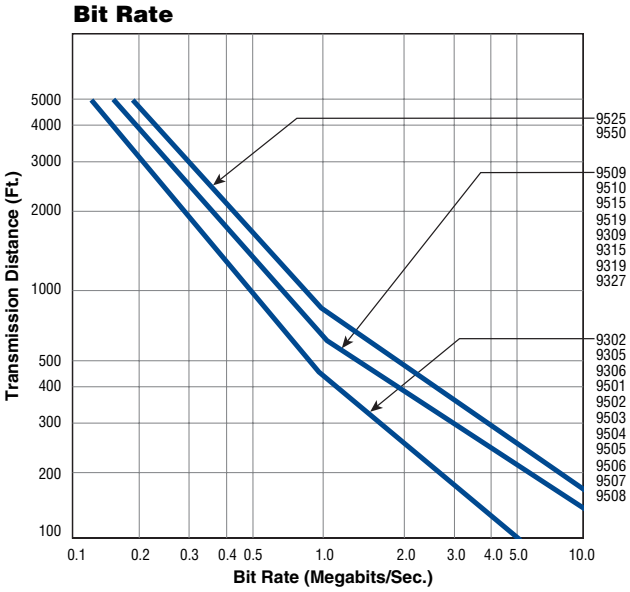


Rise Time



Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 ohms and 10% to 90% rise time less than 5 nanoseconds.

Bit Rate



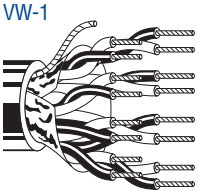
Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.

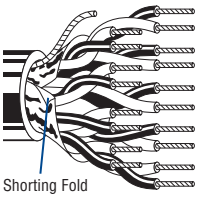
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Overall Beldfoil® Shield

High-Temperature Control and Instrumentation Cables and Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Insulation Thickness Inch	Insulation Thickness mm	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Nominal Capacitance * pF/ Ft.	Nominal Capacitance * pF/ m	Nominal Capacitance ** pF/ Ft.	Nominal Capacitance ** pF/ m
20 AWG Stranded (7x28) TC Conductors • Pairs Cabled Together • Overall Beldfoil® Shield (100% Coverage) • Drain Wire																		
Tefzel® Insulation • Clear Tefzel Jacket																		
High-Temperature 300V RMS, 150°C VW-1 	**85164**		4	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	6.6 37.0 71.0	3.0 16.8 32.3	.015	.38	.025	.64	.344	8.74	23	75	40	131
	85168		8	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	11.5 62.0 126.0	5.2 28.2 57.3	.015	.38	.025	.64	.439	11.15	23	75	40	131

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C) CSA AWM I A  Shorting Fold	**9501**	NEC: CMG CEC: CMG FT4	1	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.1 7.5 7.0 14.0 14.0	1.0 3.4 3.2 6.4 6.4	24.0Ω/M′ 78.7Ω/km	18.0Ω/M′ 59.1Ω/km	.156	3.96	75	60%	40	131	74	243
	9502††	NEC: CMG CEC: CMG FT4 P-MSHA-SC-7K-182037	2	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000 10000	30.5 U-152.4 152.4 U-304.8 304.8 3048.0	3.7 15.0 14.5 28.0 30.0 290.0	1.7 6.8 6.6 12.7 13.6 131.8	24.0Ω/M′ 78.7Ω/km	17.0Ω/M′ 55.8Ω/km	.222	5.64	75	60%	30	98	50	164
	9503	NEC: CMG CEC: CMG FT4	3	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.4 15.0 14.5 28.0 30.0	1.5 6.8 6.6 12.7 13.6	24.0Ω/M′ 78.7Ω/km	17.0Ω/M′ 55.8Ω/km	.232	5.89	75	60%	30	98	50	164
	9504	NEC: CMG CEC: CMG FT4	4	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.0 18.0 16.5 35.0 36.0	1.8 8.2 7.5 15.9 16.3	24.0Ω/M′ 78.7Ω/km	17.0Ω/M′ 55.8Ω/km	.265	6.73	75	60%	30	98	50	164
	9505	NEC: CMG CEC: CMG FT4	5	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.7 21.5 23.0 41.0 43.0	2.1 9.8 10.4 18.6 19.5	24.0Ω/M′ 78.7Ω/km	17.0Ω/M′ 55.8Ω/km	.289	7.34	75	60%	30	98	50	164

For Plenum version of 9502, see 82502.

For Plenum versions of 9503, see 89503 or 82503.

For Plenum versions of 9504, see 89504 or 82504.

For Plenum versions of 9505, see 89505 or 82505.

DCR = DC Resistance • TC = Tinned Copper

* Capacitance between conductors.
** Capacitance between one conductor and other conductors connected to shield.
† Spools are one piece, but length may vary ±10% from length shown.
†† Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration certification. Request quotations of RG/U cables not listed.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.10.

Tefzel is a DuPont trademark.

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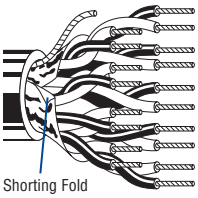
Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire *(continued)*

Semi-rigid PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464
(300V 80°C)
CSA AWM I A



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
	9506	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.0 23.0 25.0 45.0 47.0	2.3 10.4 11.3 20.4 21.4	24.0Ω/M′ 78.7Ω/km	16.0Ω/M′ 52.5Ω/km	.289	7.34	75	60%	30	98	50	164
															For Plenum version of 9506, see 82506.			
	9507	NEC: CMG CEC: CMG FT4	7	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.5 25.0 27.0 49.0 51.0	2.5 11.3 12.3 22.2 23.1	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.294	7.47	75	60%	30	98	50	164
	9508	NEC: CMG CEC: CMG FT4	8	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.3 30.5 60.0	2.9 13.8 27.2	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.324	8.23	75	60%	30	98	50	164
	9509	NEC: CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.9 33.5 67.0	3.1 15.2 30.4	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.334	8.48	75	60%	30	98	50	164
															For Plenum version of 9509, see 82509.			
	9510	NEC: CMG CEC: CMG FT4	10	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.5 36.5 74.0	3.4 16.6 33.6	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.368	9.34	75	60%	30	98	50	164
	9515	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.4 52.0 102.0	4.7 23.6 46.4	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.417	10.6	75	60%	30	98	50	164
	9519	NEC: CMG CEC: CMG FT4	19	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.8 61.5 122.0	5.8 28.0 55.5	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.448	11.4	75	60%	30	98	50	164
	9525	NEC: CMG CEC: CMG FT4	25	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	16.0 79.5 155.0	7.3 36.1 70.3	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.503	12.8	75	60%	30	98	50	164
	9550	NEC: CMG CEC: CMG FT4	50	Request Technical Bulletin T/8-4	100 500† 1000†	30.5 152.4 304.8	31.9 153.5 311.0	14.5 69.8 141.4	24.0Ω/M′ 78.7Ω/km	15.2Ω/M′ 49.9Ω/km	.708	18.0	75	60%	30	98	50	164

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools are one piece, but length may vary -0% to +20% from length shown.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.10.

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Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications
Plenum-Rated

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 	**82641**	NEC: CMP CEC: CMP FT6	1	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	9.0 8.0	4.1 3.6	.006	.15	.014	.36	.106	2.69	31	102	59	194
	82502	NEC: CMP CEC: CMP FT6	2	See Chart 3 (Tech Info Section)	U-500† U-1000† 1000†	U-152.4 U-304.8 304.8	8.0 16.0 14.0	3.6 7.3 6.4	.006	.15	.014	.36	.162	4.11	25	82	45	148
	82503	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	19.0 18.0	8.6 8.2	.006	.15	.014	.36	.169	4.29	25	82	45	148
	82504	NEC: CMP CEC: CMP FT6	4	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	24.0 26.0	10.9 11.8	.006	.15	.014	.36	.193	4.90	25	82	45	148
	82505	NEC: CMP CEC: CMP FT6	5	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	29.0 31.0	13.2 14.0	.006	.15	.015	.38	.196	4.98	25	82	45	148
	82506	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	U-500† U-1000† 1000†	U-152.4 U-304.8 304.8	17.5 34.0 35.0	8.0 15.5 15.9	.006	.15	.015	.38	.209	5.31	25	82	45	148
	82509	NEC: CMP CEC: CMP FT6	9	See Chart 3 (Tech Info Section)	1000†	304.8	49.0	22.3	.006	.15	.015	.38	.246	6.25	23	75	42	138
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 	**88641**	NEC: CMP CEC: CMP FT6	1	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	2.4 6.0 9.0	1.1 2.7 4.1	.006	.15	.014	.36	.106	2.69	31	102	59	194
	89503	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	4.0 10.5 21.0	1.8 4.8 9.5	.006	.15	.014	.36	.175	4.45	21	69	40	131
	89504	NEC: CMP CEC: CMP FT6	4	See Chart 3 (Tech Info Section)	500† 1000†	152.4 304.8	13.0 29.0	6.0 13.1	.006	.15	.014	.36	.192	4.88	21	69	40	131
	89505	NEC: CMP CEC: CMP FT6	5	See Chart 3 (Tech Info Section)	100 1000†	30.5 304.8	4.9 33.0	2.2 15.0	.006	.15	.014	.36	.197	5.00	21	69	40	131

TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

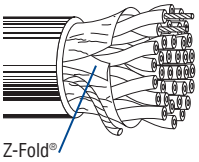
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Overall Beldfoil® Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-485 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
28 AWG Stranded (7x36) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 28 AWG Stranded TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)	**8132F0**	NEC: CL2	2	See Chart 5 (Tech Info) Section)	500 1000	152.4 304.8	8.5 20.0	3.9 9.1	65.0Ω/M′ 213.0Ω/km	23.1Ω/M′ 75.8Ω/km	.215	5.46	120	78%	11.0	36.1	20.0	65.6
	8133F0	NEC: CL2	3	See Chart 5 (Tech Info Section)	500	152.4	11.0	5.0	65.0Ω/M′ 213.0Ω/km	23.1Ω/M′ 75.8Ω/km	.250	6.35	120	78%	11.0	36.1	20.0	65.6
	8134F0	NEC: CL2	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	13.5 31.0	6.1 14.1	65.0Ω/M′ 213.0Ω/km	20.0Ω/M′ 65.6Ω/km	.270	6.86	120	78%	11.0	36.1	20.0	65.6
	8135F0	NEC: CL2	5	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	14.0 32.0	6.4 14.5	65.0Ω/M′ 213.0Ω/km	20.0Ω/M′ 65.6Ω/km	.280	7.11	120	78%	11.0	36.1	20.0	65.6
	8138F0	NEC: CL2	8	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	22.0 42.0	10.0 19.1	65.0Ω/M′ 213.0Ω/km	17.7Ω/M′ 58.1Ω/km	.310	7.88	120	78%	11.0	36.1	20.0	65.6
	8142F0	NEC: CL2	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	27.5 54.0	12.5 24.5	65.0Ω/M′ 213.0Ω/km	17.7Ω/M′ 58.1Ω/km	.385	9.78	120	78%	11.0	36.1	20.0	65.6
	8148F0	NEC: CL2	18	See Chart 5 (Tech Info Section)	500	152.4	38.5	17.5	65.0Ω/M′ 213.0Ω/km	15.8Ω/M′ 51.8Ω/km	.445	11.31	120	78%	11.0	36.1	20.0	65.6
	8155F0	NEC: CL2	25	See Chart 5 (Tech Info Section)	500	152.4	42.0	19.1	65.0Ω/M′ 213.0Ω/km	14.3Ω/M′ 4.7Ω/km	.545	13.85	120	78%	11.0	36.1	20.0	65.6



Z-Fold®

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

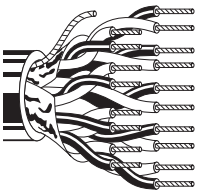
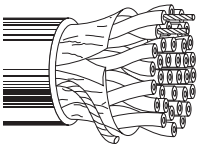
Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Overall Beldfoil® Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C) 	**9680**	NEC: CM CEC: CM	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	17.0 38.0	7.7 17.3	24.0Ω/M′ 78.7Ω/km	14.4Ω/M′ 47.2Ω/km	.282	7.16	100	66%	15.5	50.8	27.5	90.2
	9681	NEC: CM CEC: CM	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	24.0 45.0	10.9 20.5	24.0Ω/M′ 78.7Ω/km	14.4Ω/M′ 47.2Ω/km	.307	7.80	100	66%	15.5	50.8	27.5	90.2
	9682	NEC: CM CEC: CM	6	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	29.5 56.0	13.4 25.5	24.0Ω/M′ 78.7Ω/km	13.1Ω/M′ 43.0Ω/km	.342	8.69	100	66%	15.5	50.8	27.5	90.2
	9683	NEC: CM CEC: CM	9	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	38.0 79.0	17.2 35.9	24.0Ω/M′ 78.7Ω/km	12.0Ω/M′ 39.4Ω/km	.397	10.10	100	66%	15.5	50.8	27.5	90.2
	9684	NEC: CM CEC: CM	12.5 (12 prs.+ 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	49.5 97.0	22.6 44.1	24.0Ω/M′ 78.7Ω/km	12.0Ω/M′ 39.4Ω/km	.445	11.30	100	66%	15.5	50.8	27.5	90.2
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C) 	**1419A**	NEC: CM CEC: CM FT1	2	See Chart 5 (Tech Info Section)	500 1000 10000	152.4 304.8 3048.0	13.5 30.0 310.0	6.1 13.6 140.9	24.0Ω/M′ 78.7Ω/km	15.1Ω/M′ 49.5Ω/km	.248	6.30	100	78%	13	42.7	22	72
	1420A	NEC: CM CEC: CM FT 1	3	See Chart 5 (Tech Info Section)	500 1000 10000	152.4 304.8 3048.0	15.0 34.0 340.0	6.8 15.5 154.5	24.0Ω/M′ 78.7Ω/km	15.1Ω/M′ 49.5Ω/km	.261	6.63	100	78%	13	42.7	22	72
	1421A	NEC: CM CEC: CM	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	16.5 37.0	7.5 16.8	24.0Ω/M′ 78.7Ω/km	14.4Ω/M′ 47.2Ω/km	.280	7.11	100	78%	13	42.7	22	72
	1422A	NEC: CM CEC: CM	5	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	23.0 43.0	10.5 19.5	24.0Ω/M′ 78.7Ω/km	14.4Ω/M′ 47.2Ω/km	.294	7.47	100	78%	13	42.7	22	72
	1423A	NEC: CM CEC: CM	6	See Chart 5 (Tech Info Section)	500 1000 10000	152.4 304.8 3048.0	25.0 48.0 500.0	11.4 21.8 227.3	24.0Ω/M′ 78.7Ω/km	13.0Ω/M′ 42.7Ω/km	.319	8.10	100	78%	13	42.7	22	72
	1424A	NEC: CM CEC: CM	12.5 (12 prs.+ 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	43.0 85.0	19.5 38.6	24.0Ω/M′ 78.7Ω/km	13.0Ω/M′ 42.7Ω/km	.418	10.62	100	78%	13	42.7	22	72
	1425A	NEC: CM CEC: CM	15	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	53.0 99.0	24.1 45.0	24.0Ω/M′ 78.7Ω/km	11.2Ω/M′ 36.7Ω/km	.473	12.01	100	78%	13	42.7	22	72

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pair • Overall Beldfoil Shield▲ (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polyolefin Insulation • Black Matte PVC Jacket																		
High-Flex 300V RMS 	**1508A**	NEC: CM	1	Black, Red	500 1000	152.4 304.8	6.5 11.0	2.9 5.0	.008	.20	.024	.61	.131	3.33	31	102	58	190
Jacket and shield are bonded so both can be removed with automatic stripping equipment.																		
Polypropylene Insulation • PVC Jacket (Available in Gray, Brown, Red, Green, Lt. Blue, Purple, White or Black)																		
300V RMS  Z-Fold®	**1883A**	NEC: CMR CEC: CMR FT4	1	Black, Red	U-1000 1000◆	U-304.8 304.8	11.0 11.0	5.0 5.0	.008	.20	.020	.51	.123	3.12	31	102	58	190
◆ 1000 ft. put-up available in Gray only. Jacket and shield are bonded so both can be removed with automatic stripping equipment. For cross-connect use with 1408R Snake Cables.																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2092 (300V 60°C) 	**8641**	NEC: CM CEC: CM	1	Black, Clear	100 U-500 500 U-1000 1000 2000	30.5 U-152.4 152.4 U-304.8 304.8 609.6	2.3 7.5 7.0 14.0 14.0 28.0	1.0 3.4 3.2 6.4 6.4 12.7	.016	.41	.025	.64	.168	4.27	22	72	42	138
For Plenum versions of 8641, see 88641 or 82641.																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS, Non-conduit 	**88641**	NEC: CMP CEC: CMP FT6	1	Black, Red	100 500† 1000†	30.5 152.4 304.8	2.4 6.0 9.0	1.1 2.7 4.1	.006	.15	.014	.36	.106	2.69	31	102	59	194
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS, Non-conduit 	**82641**	NEC: CMP CEC: CMP FT6	1	Black, Red	U-1000† 1000†	U-304.8 304.8	9.0 8.0	4.1 3.6	.006	.15	.014	.36	.106	2.69	31	102	59	194

TC = Tinned Copper

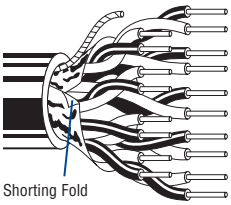
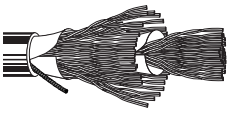
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.
▲Beldfoil provides high reliability with ease of termination.

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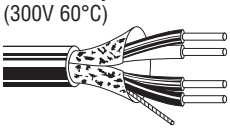
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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Insulation Thickness Inch	Insulation Thickness mm	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Nominal Capacitance ** pF/Ft.	Nominal Capacitance ** pF/m
22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C)  Shorting Fold	**9302**	NEC: CMG CEC: CMG FT4	2	See Chart 3 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	15.5 15.0 29.0 31.0	7.0 6.8 13.2 14.1	.013	.33	.032	.81	.244	6.20	35	115	50	164
	9305	NEC: CMG CEC: CMG FT4	4	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.9 22.0 22.5 43.0 45.0	2.2 10.0 10.2 19.5 20.4	.013	.33	.032	.81	.265	6.73	35	115	50	164
	9306	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	31.5 62.0	14.3 28.2	.013	.33	.032	.81	.315	8.00	35	115	50	164
	9309	NEC: CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	44.5 86.0	20.2 39.1	.013	.33	.033	.84	.363	9.22	35	115	50	164
	9315	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	67.0 133.0	30.5 60.5	.013	.33	.037	.94	.449	11.41	35	115	50	164
	9319	NEC: CMG CEC: CMG FT4	19	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	85.0 165.0	38.6 75.0	.013	.33	.040	1.02	.495	12.57	35	115	50	164
	9327	NEC: CMG CEC: CMG FT4	27	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	116.0 230.0	52.7 104.5	.013	.33	.045	1.14	.615	15.62	35	115	50	164
300V RMS, 60°C 	**8751**	NEC: CMG CEC: CMG FT4	51	Request Technical Bulletin T/8-4	1000†	304.8	384.0	174.5	.010	.25	.050	1.27	.710	18.03	30	98	42.8	140

For 38-pair polypropylene version of 8751, see 8752.

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/Ft.	Nom. Capacitance * pF/m	Nom. Capacitance ** pF/Ft.	Nom. Capacitance ** pF/m
22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Duofoil® Shield (100% Coverage) • 22 AWG Stranded Tinned Copper Drain Wire																		
Datalene® Insulation • Black PVC Jacket																		
UL AWM Style 2668 (300V 60°C) 	**9184**	NEC: CM CEC: CM	2	Black & Yellow, Red & Blue	500 1000	152.4 304.8	29.0 59.0	13.2 26.8	16.5Ω/M′ 54.13Ω/km	8.0Ω/M′ 26.2Ω/km	.385	9.78	150	78%	8.7	28.5	14.1	46.3

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
† Spools are one piece, but length may vary -0 to +20% from length shown.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

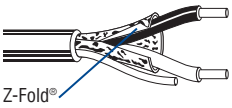
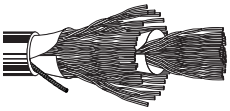
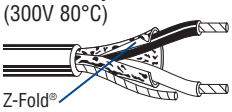
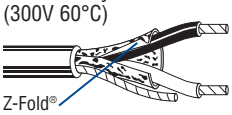
See Attenuation, Rise Time and Bit Rate data for this series on page 5.10.

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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 22 AWG Solid TC Drain Wire◆																		
Polypropylene Insulation • Gray or Black PVC Jacket																		
300V RMS 75°C  Z-Fold®	**8450**	NEC: CM CEC: CM	1	Black, Red	U-500▲ U-1000▲ 1000	U-152.4 U-304.8 304.8	7.5 14.0 13.0	3.4 6.4 5.9	.007	.18	.018	.46	.118	3.00	40	131	76	249
Polypropylene Insulation • Chrome PVC Jacket																		
200V RMS 80°C 	**8752**		38	Request Tech Bulletin T/8-4	250† 1000†	76.2 304.8	65.0 256.0	29.5 116.4	.008	.20	.045	1.14	.610	15.50	17	56	24.3	80
22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Semi-rigid PVC Insulation • Pale Fawn Beige Striated PVC Jacket																		
UL AWM Style 2464 (300V 80°C) 	**9414**	NEC: CMG CEC: CMG FT4	1	White, Black	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	12.0 11.5 23.0 23.0	5.5 5.2 10.5 10.5	.010	.25	.035	.89	.186	4.72	50	164	95	312
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C)  Z-Fold®	**9462**	NEC: CMG CEC: CMG FT4	1	Black, Red	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.0 11.0 10.5 21.0 21.0	1.4 5.0 4.8 9.5 9.5	.013	.33	.035	.89	.186	4.72	50	164	90	295
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2092 (300V 60°C)  Z-Fold®	**8761**	NEC: CM CEC: CM	1	Black, Clear	U-500 500 U-1000 1000 2000 5000 10000††	U-152.4 152.4 U-304.8 304.8 609.6 1524.0 3048.0	9.0 9.0 17.0 18.0 36.0 90.0 170.0	4.1 4.1 7.7 8.2 16.3 40.9 77.3	.016	.41	.025	.64	.175	4.45	24	79	47	154
UL AWM Style 2092 (300V 60°C) 	**9461**	NEC: CM CEC: CM	1	Black, Clear	U-500 U-1000	U-152.4 U-304.8	11.0 21.0	5.0 9.6	.016	.41	.026	.66	.180	4.57	24	79	47	154

For Plenum versions of 8761, see 88761, 87761 or 82761.

◆8752 has a stranded tinned copper drain wire.

▲U-500 ft. and U-1000 ft. put-ups available in Black only.

Belden's Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables.

The jacket and shield are bonded so both can be removed on automatic stripping equipment.

TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

†Spools are one piece, but length may vary -0 to +20% from length shown.

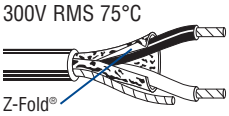
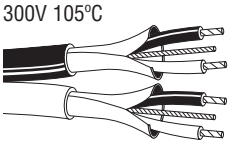
††Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 1500 ft.

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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Insulation Thickness Inch	Insulation Thickness mm	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Nominal Capacitance * pF/ Ft.	Nominal Capacitance * pF/ m	Nominal Capacitance ** pF/ Ft.	Nominal Capacitance ** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire *(continued)*																		
Polypropylene Insulation • Paper Wrap • Gray or Black PVC Jacket																		
300V RMS 75°C  Z-Fold®	**8451**	NEC: CMR CEC: CMG	1	Black, Red	100◆ U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.3 8.5 8.0 16.0 16.0	1.1 3.8 3.6 7.3 7.3	.008	.20	.020	.51	.138	3.51	34	112	67	220
◆100 ft. put-up available in Black only. Unique paper separator facilitates jacket stripping.																		
Polypropylene Insulation • PVC Jacket (Available in Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Purple or White)																		
300V RMS 75°C 	**9451**	NEC: CMR CEC: CMG FT4	1	Black, Red	U-500▲ 500▲ T-1000▲ U-1000 5000	U-152.4 152.4 T-304.8 U-304.8 1524.0	8.5 8.0 18.0 15.0 75.0	3.9 3.6 8.2 6.8 34.0	.008	.20	.020	.51	.135	3.43	35	115	67	220
▲U-500 ft., 500 ft. and T-1000 ft. put-ups available in Gray only. The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket																		
300V RMS 105°C 	**9451SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	1	Black, Red	1000	304.8	20.0	9.1	.008	.20	.032	.81	.160	4.06	35	115	67	220
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
Polyolefin Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray)																		
300V 105°C 	**9451D**	NEC: CMR CEC: CMR FT4	2	Black, Red	U-1000 2000●	U-304.8 620.8	29.0 62.0	13.2 28.1	.008	.20	.020	.51	.135 x .270	3.43 x 6.86	34	112	67	220
●2000 ft. put-up available in Red & Green only. The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
Plenum • FEP Insulation • White Flamarrest® Jacket in Zip-Cord Construction																		
300V RMS 60°C 	**9451DP** new	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	1000	304.8	24.0	10.9	.007	.18	.017	.43	.127 x .269	3.23 x 6.83	35	115	67	220
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)																		
300V RMS 	**1266A**	NEC: CM CEC: CM	1	Black, Red	U-1000 1000†	U-304.8 304.8	15.0 15.0	6.8 6.8	.010	.25	.020	.51	.143	3.63	30	99	54	177
†1000 ft. put-up available in Black only. Unique design features lower capacitance and greater flexibility than standard audio pair constructions.																		
PVC Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)																		
300V 90°C 	**1503A**	NEC: CM CEC: CM	1	Black, Red	U-1000	U-304.8	16.0	7.3	.010	.25	.020	.51	.142	3.61	53	174	97	318

TC = Tinned Copper

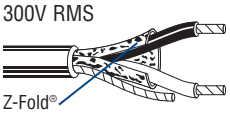
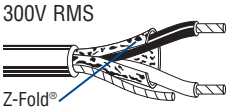
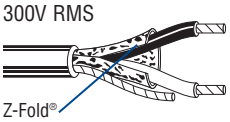
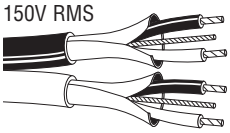
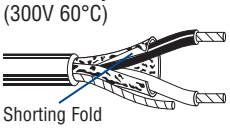
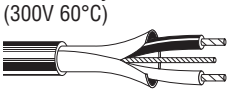
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS  Z-Fold®	**88761**	NEC: CMP CEC: CMP FT6	1	Black, Red	100† U-500† 500† U-1000† 1000†	30.5 U-152.4 152.4 U-304.8 304.8	2.7 7.5 7.5 15.0 12.0	1.2 3.4 3.4 6.8 5.4	.006	.15	.014	.36	.119	3.02	35	115	67	220
Plenum • FEP Insulation • Red Fluorocopolymer Jacket																		
300V RMS  Z-Fold®	**87761**	NEC: CMP CEC: CMP FT6	1	Black, Red	500† 1000†	152.4 304.8	7.0 11.0	3.2 5.0	.006	.15	.014	.36	.116	2.95	35	115	67	220
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS  Z-Fold®	**82761**	NEC: CMP CEC: CMP FT6	1	Black, Red	U-500† U-1000† 1000†	U-152.4 U-304.8 304.8	7.0 14.0 11.0	3.2 6.4 5.0	.006	.15	.014	.36	.116	2.95	35	115	67	220
Plenum • FEP Insulation • Flamarrest Jacket (Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Purple or White)																		
300V RMS 60°C 	**9451P** new	NEC: CMP CEC: CMP FT6	1	Black, Red	U-1000 5000	U-304.8 1524.0	15.0 75.0	6.8 34.0	.007	.18	.017	.43	.127	3.23	35	115	67	220
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
22 AWG Stranded (19x34) TC Conductors • Dual Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
PVC Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray)																		
Stereo Audio 150V RMS 	**1504A**	NEC: CM CEC: CM	2	Black, Red	U-1000 2000††	U-304.8 609.8	32.0 64.0	14.5 29.0	.010	.25	.020	.51	.143 x .286	3.63 x 7.26	57	187	100	328
††2000 ft. put-up available in Red & Gray or Red & Green only. The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
20 AWG Stranded (7x28) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2092 (300V 60°C)  Shorting Fold	**8762**	NEC: CM CEC: CM	1	Black, Clear	100 250 U-500 500 U-1000 1000 2000 10000	30.5 76.2 U-152.4 152.4 U-304.8 304.8 609.6 3048.0	3.2 6.3 12.0 12.0 23.0 23.0 46.0 240.0	1.5 2.8 5.5 5.5 10.5 10.5 20.9 109.1	.016	.41	.028	.71	.204	5.18	27	89	49	161
UL AWM Style 2092 (300V 60°C) 	**9464**	NEC: CM CEC: CM	1	Black, Clear	U-500 U-1000	U-152.4 U-304.8	17.0 32.0	7.7 14.5	.016	.41	.035	.89	.214	5.44	27	89	49	161
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.																		

TC = Tinned Copper

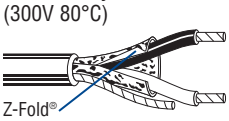
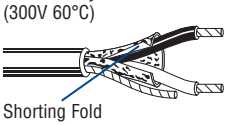
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

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Overall Beldfoil® Shield

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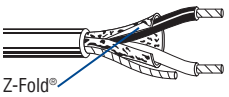
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
20 AWG Stranded (7x28) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire *(cont.)*																		
PVC Insulation • Beige PVC Jacket																		
UL AWM Style 2464 (300V 80°C)	**9154**	NEC: CMG	1	Black, Red	U-500	U-152.4	11.5	5.2	.014	.36	.031	.79	.198	5.03	60	197	100	328
					500	152.4	12.0	5.5										
		CEC: CMG FT4			U-1000	U-304.8	22.0	10.0										
					1000	304.8	23.0	10.5										
 Z-Fold®																		
9154 has 22 AWG stranded tinned copper drain wire.																		
18 AWG Stranded (16x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2092 (300V 60°C)	**8760**	NEC: CM	1	Black, Clear	250	76.2	6.8	3.1	.019	.48	.028	.71	.222	5.64	24	79	44	144
					U-500	U-152.4	13.5	6.1										
		CEC: CM			500	152.4	13.0	5.9										
					U-1000	U-304.8	25.0	11.3										
					1000	304.8	26.0	11.8										
					2000	609.6	50.0	22.7										
					5000	1524.0	135.0	61.4										
 Shorting Fold					10000	3048.0	260.0	118.2										
	**9460**	NEC: CM	1	Black, Clear	U-500	U-152.4	18.5	8.4	.019	.48	.030	.76	.230	5.84	24	79	44	144
		CEC: CM			U-1000	U-304.8	36.0	16.4										

For Plenum versions of 8760, see 88760, 87760 or 82760.

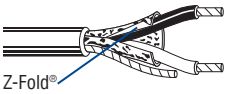
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.

18 AWG Stranded (19x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

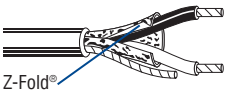
Plenum • FEP Insulation • Red FEP Jacket

300V RMS	**88760**	NEC: CMP	1	Black, Red	100	30.5	3.7	1.7	.007	.18	.014	.36	.150	3.81	51	167	97	318
					U-500	U-152.4	12.5	5.7										
		CEC: CMP FT6			500†	152.4	11.0	5.0										
					U-1000	U-304.8	24.0	10.9										
 Z-Fold®					1000†	304.8	22.0	10.0										

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

300V RMS	**87760**	NEC: CMP	1	Black, Red	U-500	U-152.4	12.5	5.7	.007	.18	.014	.36	.150	3.81	51	167	97	318
					500†	152.4	10.5	4.8										
		CEC: CMP FT6			1000†	304.8	21.0	9.5										
 Z-Fold®																		

Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS	**82760**	NEC: CMP	1	Black, Red	U-500†	U-152.4	12.0	5.4	.007	.18	.014	.36	.150	3.81	51	167	97	318
					U-1000†	U-304.8	22.0	10.0										
		CEC: CMP FT6			1000†	304.8	21.0	9.5										
 Z-Fold®																		

TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

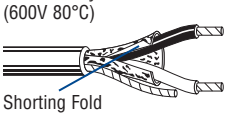
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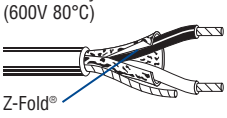
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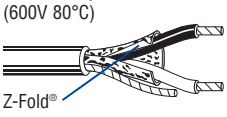
Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
16 AWG Stranded (19x29) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 18 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 20253 (600V 80°C)	**8719**	NEC: CM, CL2 CEC: CM	1	Black, Clear	U-500	U-152.4	24.0	11.1	.032	.81	.032	.81	.313	7.95	23	75	44	144
					500	152.4	25.5	11.6										
					U-1000	U-304.8	47.0	21.3										
					1000	304.8	50.0	22.7										
					2000	609.6	100.0	45.5										
					5000	1524.0	245.0	111.4										
					10000	3048.0	510.0	231.3										
14 AWG Stranded (19x27) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 16 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 20253 (600V 80°C)	**8720**	NEC: CM, CL2	1	Black, Clear	U-500	U-152.4	34.0	15.4	.032	.81	.035	.89	.355	9.02	24	79	47	154
					500	152.4	35.0	15.9										
					1000	304.8	71.0	32.3										
					2000	609.6	138.0	62.7										
12 AWG Stranded (19x25) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 14 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 20253 (600V 80°C)	**8718**	NEC: CL2	1	Black, Clear	U-500	U-152.4	47.5	21.6	.037	.94	.040	1.02	.400	10.16	25	82	49	161
					500	152.4	50.5	22.9										
					1000	304.8	100.0	45.5										
					2000	609.6	198.0	90.0										







TC = Tinned Copper

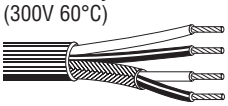
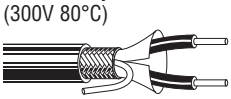
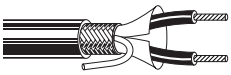
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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Combination Unshielded and Braid Shield and Overall Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
Combination • 22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • TC Braid Shield Over One Pair (62% Coverage)																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2094 (300V 60°C) 	**8732**	NEC: CM CEC: CM	2: (1) Shld (1) Unshld	Black, Clear	500 U-1000 1000	152.4 U-304.8 304.8	17.5 37.0 39.0	7.9 16.8 17.7	.020	.51	.030	.76	.206 x .332	5.23 x 8.43	21	69	37	121
Overall Braid • 22 AWG Solid TC Conductors • Twisted Pair • Polyester Tape + TC Braid Shield (88% Coverage) • 22 AWG Solid TC Drain Wire																		
PVC Insulation • Black PVC Jacket																		
UL AWM Style 2095 (300V 80°C) 	**8437**	NEC: CMG CEC: CMG FT4	1	Black, Red	1000	304.8	25.0	11.4	.015	.38	.025	.64	.200	5.08	48	157	85	279
Overall Braid • 22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Polyester Tape + TC Braid Shield (86% Coverage) • Stranded TC Drain Wire																		
PVC Insulation • Black PVC Jacket																		
UL AWM Style 2095 (300V 80°C) 	**8441**	NEC: CMG CEC: CMG FT4	1	Black, Red	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.6 14.0 14.0 27.0 27.0	1.6 6.4 6.4 12.3 12.3	.015	.38	.025	.64	.210	5.33	49	161	86	282
Overall Braid • 18 AWG Stranded (16x30) Tinned Copper Conductors • Twisted Pair • Separator + TC Braid Shield (73% Coverage)																		
Rubber Insulation • Chrome PVC Jacket																		
300V RMS 80°C 	**8208**		1	Red, White	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.7 21.5 20.0 42.0 43.0	2.1 9.8 9.1 19.1 19.5	.022	.56	.025	.64	.257	6.53	46	151	77	253

TC = Tinned Copper

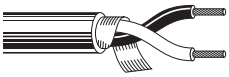
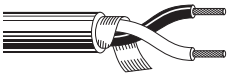
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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Overall Spiral Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
Overall Spiral • 22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2095 (300V 80°C) 	**8737**	NEC:	1	Black,	U-500	U-152.4	10.5	4.8	.015	.38	.025	.64	.180	4.57	40	131	70	230
		CMG		Red	500	152.4	10.0	4.5										
		CEC:			U-1000	U-304.8	20.0	9.1										
		CMG FT4			1000	304.8	20.0	9.1										
Overall Spiral • 20 AWG Stranded (7x28) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (89% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2095 (300V 80°C) 	**8759**	NEC:	1	Black,	U-500	U-152.4	12.5	5.7	.016	.41	.025	.64	.199	5.05	47	154	79	259
		CMG		Red	U-1000	U-304.8	24.0	10.9										
		CEC:			1000	304.8	25.0	11.4										
		CMG FT4																
Overall Spiral • 18 AWG Stranded (7x26) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
300V RMS 60°C 	**8790**	NEC:	1	Red,	U-500	U-152.4	17.5	7.9	.022	.56	.028	.71	.241	6.12	53	174	92	302
		CMG		White	500	152.4	17.0	7.7										
		CEC:			U-1000	U-304.8	33.0	15.0										
		CMG FT4			1000	304.8	35.0	15.9										
Overall Spiral • 16 AWG Stranded (19x29) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
300V RMS 60°C 	**8780**	NEC:	1	Black,	500	152.4	23.5	10.7	.023	.58	.030	.76	.280	7.11	57	187	98	322
		CMG		White	U-1000	U-304.8	44.0	20.0										
		CEC:			1000	304.8	46.0	20.9										
		CMG FT4																

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

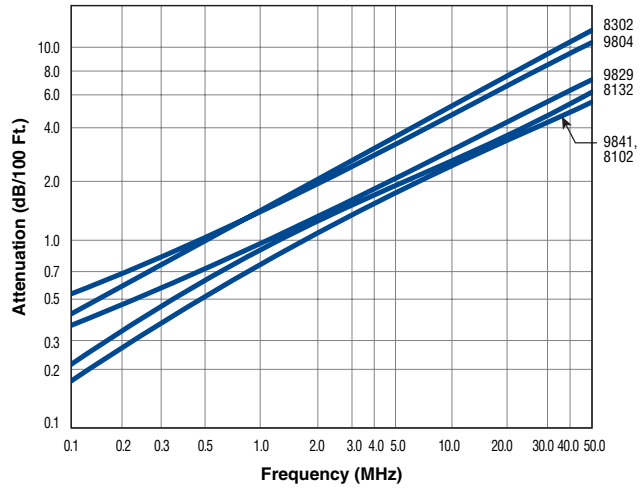
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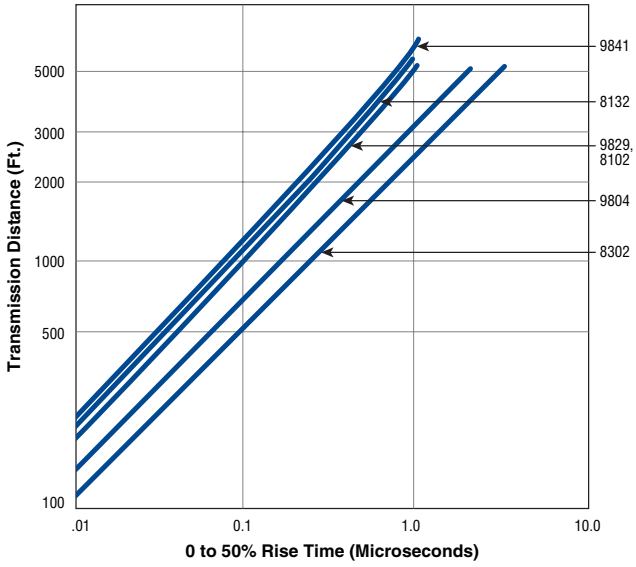
Overall Foil/Braid Shield

Cable Characteristics

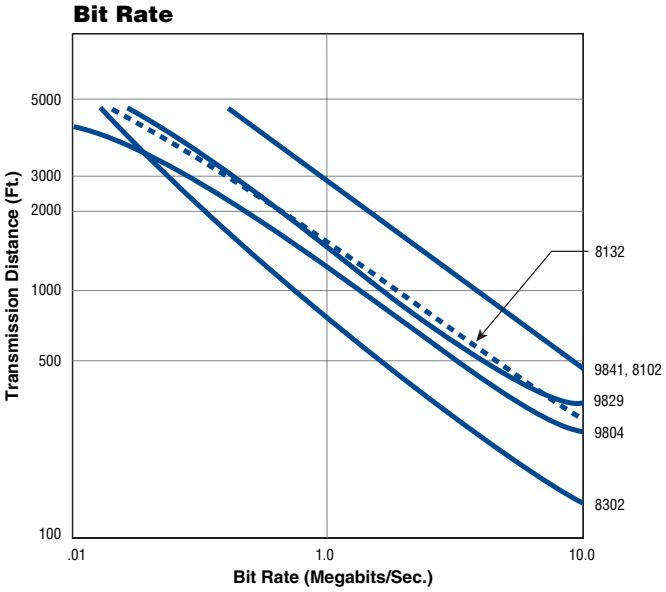
Attenuation



Rise Time



Bit Rate

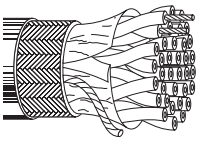


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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
28 AWG Stranded (7x36) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (90% Coverage) • 28 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2960 (30V 60°C)	**9804**	NEC: CL2	2	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.9 14.5 32.0	1.8 6.6 14.5	64.9Ω/M′ 212.9Ω/km	4.9Ω/M′ 16.1Ω/km	.214	5.44	100	66%	15.5	50.9	27.5	90.2
	**9805**	NEC: CL2	3	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.2 15.5 35.0	1.9 7.0 15.9	64.9Ω/M′ 212.9Ω/km	4.2Ω/M′ 13.8Ω/km	.222	5.64	100	66%	15.5	50.9	27.5	90.2
	9806	NEC: CL2	4	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.3 17.5 39.0	2.0 7.9 17.7	64.9Ω/M′ 212.9Ω/km	4.0Ω/M′ 13.1Ω/km	.237	6.02	100	66%	15.5	50.9	27.5	90.2
	9807	NEC: CL2	5	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.3 18.0 39.0	2.0 8.2 17.7	64.9Ω/M′ 212.9Ω/km	4.2Ω/M′ 13.8Ω/km	.240	6.10	100	66%	15.5	50.9	27.5	90.2
	9808	NEC: CL2	7	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.9 20.5 44.0	2.2 9.3 20.0	64.9Ω/M′ 212.9Ω/km	3.7Ω/M′ 12.1Ω/km	.256	6.50	100	66%	15.5	50.9	27.5	90.2
	9809	NEC: CL2	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.7 25.0 53.0	2.6 11.3 24.1	64.9Ω/M′ 212.9Ω/km	3.1Ω/M′ 10.2Ω/km	.290	7.37	100	66%	15.5	50.9	27.5	90.2
	9812	NEC: CL2	12	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.7 31.0 62.0	3.0 14.1 28.2	64.9Ω/M′ 212.9Ω/km	2.8Ω/M′ 9.2Ω/km	.319	8.10	100	66%	15.5	50.9	27.5	90.2
	9813	NEC: CL2	13	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.0 34.0 66.0	3.2 15.5 30.0	64.9Ω/M′ 212.9Ω/km	2.2Ω/M′ 7.2Ω/km	.336	8.53	100	66%	15.5	50.9	27.5	90.2
	9819	NEC: CL2	18	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.3 41.0 82.0	3.8 18.6 37.3	64.9Ω/M′ 212.9Ω/km	2.0Ω/M′ 6.7Ω/km	.365	9.27	100	66%	15.5	50.9	27.5	90.2
	9825	NEC: CL2	25	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.9 54.5 108.0	4.5 24.8 49.1	64.9Ω/M′ 212.9Ω/km	1.9Ω/M′ 6.2Ω/km	.429	10.90	100	66%	15.5	50.9	27.5	90.2
	9814	NEC: CL2	31	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.8 64.0 127.0	5.4 29.1 57.7	64.9Ω/M′ 212.9Ω/km	2.1Ω/M′ 6.9Ω/km	.462	11.73	100	66%	15.5	50.9	27.5	90.2

DCR = DC Resistance • TC = Tinned Copper

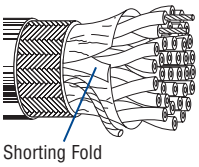
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-485 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
28 AWG Stranded (7x36) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage) • 28 AWG Stranded TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)	**8132**	NEC: CL2	2	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.6 14.5 29.0	1.6 6.6 13.2	65.0Ω/M′ 213.0Ω/km	5.1Ω/M′ 16.6Ω/km	.220	5.59	120	78%	11.0	36.1	20.0	65.6
 Shorting Fold	**8133**	NEC: CL2	3	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.8 15.0 34.0	1.7 6.8 15.5	65.0Ω/M′ 213.0Ω/km	5.2Ω/M′ 17.1Ω/km	.270	6.86	120	78%	11.0	36.1	20.0	65.6
	8134	NEC: CL2	4	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.3 18.0 39.0	2.0 8.2 17.7	65.0Ω/M′ 213.0Ω/km	4.4Ω/M′ 14.3Ω/km	.290	7.37	120	78%	11.0	36.1	20.0	65.6
	8135	NEC: CL2	5	See Chart 5 (Tech Info Section)	100 1000	30.5 304.8	4.6 42.0	2.1 19.1	65.0Ω/M′ 213.0Ω/km	4.2Ω/M′ 13.8Ω/km	.300	7.62	120	78%	11.0	36.1	20.0	65.6
	8138	NEC: CL2	8	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.6 27.0 52.0	2.5 12.3 23.6	65.0Ω/M′ 213.0Ω/km	3.7Ω/M′ 12.3Ω/km	.330	8.38	120	78%	11.0	36.1	20.0	65.6
	8142	NEC: CL2	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.8 33.0 66.0	3.1 15.0 29.9	65.0Ω/M′ 213.0Ω/km	3.1Ω/M′ 10.1Ω/km	.375	9.53	120	78%	11.0	36.1	20.0	65.6
	8148	NEC: CL2	18	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.5 47.5 92.0	3.9 21.6 41.8	65.0Ω/M′ 213.0Ω/km	2.6Ω/M′ 8.4Ω/km	.465	11.81	120	78%	11.0	36.1	20.0	65.6
	8155	NEC: CL2	25	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.1 64.0 121.0	5.0 29.1 55.0	65.0Ω/M′ 213.0Ω/km	2.3Ω/M′ 7.6Ω/km	.565	14.35	120	78%	11.0	36.1	20.0	65.6

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

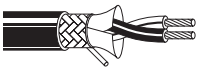
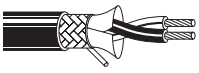
Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-485 Applications
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (90% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C) **DMX 512** 	**9841**	NEC: CM CEC: CM	1	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.3 20.0 40.0	2.0 9.1 18.2	24.0Ω/M′ 78.7Ω/km	3.4Ω/M′ 11.0Ω/km	.232	5.89	120	66%	12.8	42.0	23.0	75.5
													For Plenum versions of 9841, see 82841 or 89841.					
	9842	NEC: CM CEC: CM	2	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.8 29.5 57.0	2.6 13.4 25.9	24.0Ω/M′ 78.7Ω/km	2.2Ω/M′ 7.2Ω/km	.340	8.64	120	66%	12.8	42.0	23.0	75.5
													For Plenum versions of 9842, see 82842.					
	9843	NEC: CM CEC: CM	3	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.1 34.5 67.0	3.2 15.7 30.5	24.0Ω/M′ 78.7Ω/km	2.3Ω/M′ 7.7Ω/km	.360	9.14	120	66%	12.8	42.0	23.0	75.5
	9844	NEC: CM CEC: CM	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	43.0 83.0	19.5 37.7	24.0Ω/M′ 78.7Ω/km	2.1Ω/M′ 6.9Ω/km	.390	9.91	120	66%	12.8	42.0	23.0	75.5
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 	**82841**	NEC: CMP CEC: CMP FT6	1	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	13.0 26.0	6.0 11.8	24.0Ω/M′ 78.7v/km	3.1Ω/M′ 10.2Ω/km	.204	5.18	120	76%	12	39.4	22	72.2
300V RMS 	**82842**	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	19.0 42.0	8.6 19.1	24.0Ω/M′ 78.7Ω/km	2.4Ω/M′ 7.9Ω/km	.273	6.93	120	76%	12	39.4	22	72.2
Plenum • Foam FEP Insulation • Red FEP Jacket																		
300V RMS 	**89841**	NEC: CMP CEC: CMP FT6	1	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	13.5 27.0	6.1 12.3	24.0Ω/M′ 78.7Ω/km	3.1Ω/M′ 10.2Ω/km	.202	5.13	120	76%	12	39.4	22	72.2
300V RMS 	**89842** new	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	25.5 49.0	11.6 22.2	24.0Ω/M′ 78.7Ω/km	3.1Ω/M′ 10.2Ω/km	.305	7.75	120	76%	12	39.4	22	72.2

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

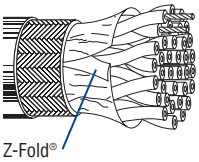
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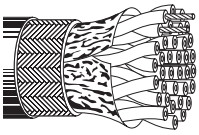
Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage)																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C) CSA AWM I A	**8332**	NEC: CMG CEC: CMG FT4	2	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.1 16.5 37.0	1.9 7.5 16.8	24.0Ω/M′ 78.7Ω/km	5.4Ω/M′ 17.7Ω/km	.250	6.35	75	60%	30	98	50	164
	8333	NEC: CMG CEC: CMG FT4	3	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.8 20.5 44.0	2.2 9.3 20.1	24.0Ω/M′ 78.7Ω/km	6.6Ω/M′ 21.7Ω/km	.265	6.73	75	60%	30	98	50	164
	8334	NEC: CMG CEC: CMG FT4	4	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.3 22.5 49.0	2.4 10.2 22.3	24.0Ω/M′ 78.7Ω/km	4.5Ω/M′ 14.8Ω/km	.288	7.32	75	60%	30	98	50	164
	8335	NEC: CMG CEC: CMG FT4	5	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.0 29.5 57.0	2.7 13.4 25.9	24.0Ω/M′ 78.7Ω/km	4.6Ω/M′ 15.1Ω/km	.295	7.49	75	60%	30	98	50	164
	8336	NEC: CMG CEC: CMG FT4	6	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.5 31.5 62.0	3.0 14.3 28.2	24.0Ω/M′ 78.7Ω/km	4.7Ω/M′ 15.4Ω/km	.310	7.87	75	60%	30	98	50	164
	8337	NEC: CMG CEC: CMG FT4	7	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.8 33.0 65.0	3.1 14.9 29.5	24.0Ω/M′ 78.7Ω/km	4.7Ω/M′ 15.4Ω/km	.321	8.15	75	60%	30	98	50	164
	8340	NEC: CMG CEC: CMG FT4	10	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.1 43.5 90.0	4.1 19.7 40.9	24.0Ω/M′ 78.7Ω/km	3.5Ω/M′ 11.5Ω/km	.385	9.78	75	60%	30	98	50	164
	8342	NEC: CMG CEC: CMG FT4	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.0 55.0 109.0	5.0 25.0 49.5	24.0Ω/M′ 78.7Ω/km	3.6Ω/M′ 11.8Ω/km	.405	10.29	75	60%	30	98	50	164
	8345	NEC: CMG CEC: CMG FT4	15	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	61.5 123.0	28.0 55.9	24.0Ω/M′ 78.7Ω/km	3.2Ω/M′ 10.5Ω/km	.445	11.30	75	60%	30	98	50	164
UL AWM Style 2464 (300V 80°C)	**8348**	NEC: CMG CEC: CMG FT4	18	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	14.2 78.5 152.0	6.4 35.8 69.3	24.0Ω/M′ 78.7Ω/km	2.7Ω/M′ 8.9Ω/km	.480	12.19	75	60%	30	98	50	164
	8355	NEC: CMG CEC: CMG FT4	25	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	96.5 195.0	43.9 88.6	24.0Ω/M′ 78.7Ω/km	2.5Ω/M′ 8.2Ω/km	.550	13.97	75	60%	30	98	50	164



Z-Fold®



DCR = DC Resistance • TC = Tinned Copper

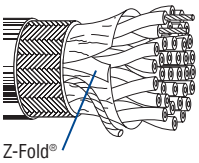
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage) • TC Drain Wire†																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)  Z-Fold®	**9829**	NEC: CM CEC: CM	2	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.7 22.0 43.0	2.1 10.0 19.5	24.0Ω/M′ 78.7Ω/km	4.4Ω/M′ 14.4Ω/km	.291	7.39	100	66%	15.5	50.9	27.5	90.2
	9830	NEC: CM CEC: CM	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	26.5 53.0	12.0 24.1	24.0Ω/M′ 78.7Ω/km	4.4Ω/M′ 14.4Ω/km	.305	7.74	100	66%	15.5	50.9	27.5	90.2
	9831	NEC: CM CEC: CM	4	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.2 30.0 58.0	2.8 13.6 26.4	24.0Ω/M′ 78.7Ω/km	3.9Ω/M′ 12.8Ω/km	.330	8.38	100	66%	15.5	50.9	27.5	90.2
	9832	NEC: CM CEC: CM	5	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.6 32.5 65.0	3.0 14.8 29.5	24.0Ω/M′ 78.7Ω/km	3.9Ω/M′ 12.8Ω/km	.338	8.59	100	66%	15.5	50.9	27.5	90.2
	9839	NEC: CM CEC: CM	6	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	35.5 69.0	16.1 31.4	24.0Ω/M′ 78.7Ω/km	2.1Ω/M′ 6.9Ω/km	.364	9.25	100	66%	15.5	50.9	27.5	90.2
	9833	NEC: CM CEC: CM	7	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	38.5 77.0	17.5 35.0	24.0Ω/M′ 78.7Ω/km	3.7Ω/M′ 12.1Ω/km	.370	9.40	100	66%	15.5	50.9	27.5	90.2
	9834	NEC: CM CEC: CM	9	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	47.0 93.0	21.4 42.3	24.0Ω/M′ 78.7Ω/km	3.0Ω/M′ 9.8Ω/km	.419	10.64	100	66%	15.5	50.9	27.5	90.2
	9835	NEC: CM CEC: CM	10	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	51.5 102.0	23.4 46.4	24.0Ω/M′ 78.7Ω/km	2.8Ω/M′ 9.2Ω/km	.451	11.46	100	66%	15.5	50.9	27.5	90.2
	9836	NEC: CM CEC: CM	12	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.4 57.0 114.0	4.7 25.9 51.8	24.0Ω/M′ 78.7Ω/km	2.8Ω/M′ 9.2Ω/km	.464	11.79	100	66%	15.5	50.9	27.5	90.2
	9837	NEC: CM CEC: CM	18	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	87.5 174.0	39.8 79.1	24.0Ω/M′ 78.7Ω/km	2.0Ω/M′ 6.6Ω/km	.567	14.40	100	66%	15.5	50.9	27.5	90.2
	9838	NEC: CM CEC: CM	25	See Chart 5 (Tech Info Section)	500	152.4	113.0	51.4	24.0Ω/M′ 78.7Ω/km	1.9Ω/M′ 6.2Ω/km	.670	17.02	100	66%	15.5	50.9	27.5	90.2

†24 AWG stranded TC drain wire.

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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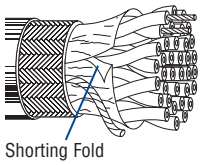
Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage) • Drain Wire†

Datalene® Insulation • Chrome PVC Jacket

UL AWM Style 2919
(30V 80°C)



Shorting Fold

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
8102	NEC: CM CEC: CM	2	See Chart 5 (Tech Info Section)	100 500 1000 10000	30.5 152.4 304.8 3048.0	4.1 17.0 38.0 380.0	1.9 7.7 17.3 172.7	24.0Ω/M′ 78.7Ω/km	4.6Ω/M′ 15.1Ω/km	.270	6.86	100	78%	12.5	41	22	72.2
8103	NEC: CM CEC: CM	3	See Chart 5 (Tech Info Section)	100 500 1000 10000	30.5 152.4 304.8 3048.0	4.6 19.5 42.0 430.0	2.1 8.9 19.1 195.5	24.0Ω/M′ 78.7Ω/km	3.8Ω/M′ 12.5Ω/km	.283	7.19	100	78%	12.5	41	22	72.2
8104	NEC: CM CEC: CM	4	See Chart 5 (Tech Info Section)	100 500 1000 10000	30.5 152.4 304.8 3048.0	5.1 21.0 46.0 490.0	2.3 9.5 20.9 222.7	24.0Ω/M′ 78.7Ω/km	4.1Ω/M′ 13.5Ω/km	.302	7.67	100	78%	12.5	41	22	72.2
8105	NEC: CM CEC: CM	5	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.8 28.0 53.0	2.6 12.7 24.1	24.0Ω/M′ 78.7Ω/km	4.2Ω/M′ 13.8Ω/km	.316	8.03	100	78%	12.5	41	22	72.2
8106	NEC: CM CEC: CM	6	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.3 30.5 58.0	2.9 13.9 26.4	24.0Ω/M′ 78.7Ω/km	3.5Ω/M′ 11.5Ω/km	.341	8.66	100	78%	12.5	41	22	72.2
8107	NEC: CM CEC: CM	7	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.8 33.0 63.0	3.1 15.0 28.6	24.0Ω/M′ 78.7Ω/km	3.5Ω/M′ 11.5Ω/km	.341	8.66	100	78%	12.5	41	22	72.2
8108	NEC: CM CEC: CM	8	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.6 37.5 72.0	3.5 17.1 32.8	24.0Ω/M′ 78.7Ω/km	2.7Ω/M′ 8.9Ω/km	.370	9.40	100	78%	12.5	41	22	72.2
8110	NEC: CM CEC: CM	10	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.1 45.5 90.0	3.7 20.7 40.9	24.0Ω/M′ 78.7Ω/km	2.4Ω/M′ 7.9Ω/km	.427	10.85	100	78%	12.5	41	22	72.2
8112	NEC: CM CEC: CM	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.2 51.0 101.0	4.2 23.3 45.9	24.0Ω/M′ 78.7Ω/km	2.4Ω/M′ 7.9Ω/km	.440	11.18	100	78%	12.5	41	22	72.2
8115	NEC: CM CEC: CM	15	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	63.5 116.0	28.9 52.7	24.0Ω/M′ 78.7Ω/km	2.6Ω/M′ 8.5Ω/km	.495	12.57	100	78%	12.5	41	22	72.2
8118	NEC: CM CEC: CM	18	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.3 70.5 144.0	6.0 32.0 65.5	24.0Ω/M′ 78.7Ω/km	2.1Ω/M′ 6.9Ω/km	.537	13.64	100	78%	12.5	41	22	72.2
8125	NEC: CM CEC: CM	25	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	20.7 98.0 191.0	9.4 44.5 86.8	24.0Ω/M′ 78.7Ω/km	2.0Ω/M′ 6.6Ω/km	.632	16.05	100	78%	12.5	41	22	72.2

†24 AWG stranded TC drain wire.

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

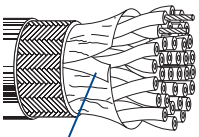
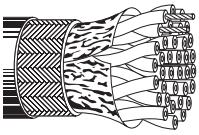
Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage)																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C)  Z-Fold®	**8302**	NEC: CMG CEC: CMG FT4	2	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.5 19.0 41.0	2.0 8.6 18.6	15.0Ω/M′ 49.2Ω/km	5.7Ω/M′ 18.7Ω/km	.260	6.60	70	60%	40	131	72	236
	8303	NEC: CMG CEC: CMG FT4	3	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.2 25.5 48.0	2.4 11.6 21.8	15.0Ω/M′ 49.2Ω/km	6.2Ω/M′ 20.3Ω/km	.270	6.86	70	60%	35	115	63	207
	8304	NEC: CMG CEC: CMG FT4	4	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.7 32.5 65.0	3.0 14.7 29.5	15.0Ω/M′ 49.2Ω/km	4.9Ω/M′ 16.1Ω/km	.320	8.13	70	60%	35	115	63	207
	8305	NEC: CMG CEC: CMG FT4	5	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.2 35.0 67.0	3.3 15.9 30.4	15.0Ω/M′ 49.2Ω/km	4.8Ω/M′ 15.7Ω/km	.322	8.18	70	60%	35	115	63	207
	8306	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.0 39.5 79.0	3.6 18.0 35.8	15.0Ω/M′ 49.2Ω/km	5.0Ω/M′ 16.4Ω/km	.348	8.84	70	60%	35	115	63	207
	8307	NEC: CMG CEC: CMG FT4	7	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.6 42.0 85.0	3.9 19.0 38.6	15.0Ω/M′ 49.2Ω/km	5.0Ω/M′ 16.4Ω/km	.348	8.84	70	60%	35	115	63	207
	8308	NEC: CMG CEC: CMG FT4	8	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.4 50.0 101.0	4.7 22.7 46.0	15.0Ω/M′ 49.2Ω/km	4.4Ω/M′ 14.4Ω/km	.384	9.75	70	60%	35	115	63	207
UL AWM Style 2464 (300V 80°C) 	**8310**	NEC: CMG CEC: CMG FT4	10	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.1 60.5 121.0	5.0 27.4 54.9	15.0Ω/M′ 49.2Ω/km	4.1Ω/M′ 13.4Ω/km	.440	11.18	70	60%	35	115	63	207
	8312	NEC: CMG CEC: CMG FT4	12	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.9 72.0 140.0	5.9 32.8 63.8	15.0Ω/M′ 49.2Ω/km	4.2Ω/M′ 13.8Ω/km	.455	11.56	70	60%	35	115	63	207
	8315	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	15.7 85.5 167.0	7.1 39.0 76.1	15.0Ω/M′ 49.2Ω/km	3.8Ω/M′ 12.5Ω/km	.502	12.75	70	60%	35	115	63	207
	8318	NEC: CMG CEC: CMG FT4	18	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	17.7 97.5 196.0	8.0 44.2 89.1	15.0Ω/M′ 49.2Ω/km	3.0Ω/M′ 9.8Ω/km	.535	13.59	70	60%	35	115	63	207
	8325	NEC: CMG CEC: CMG FT4	25	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	23.1 126.0 246.0	10.5 57.4 112.1	15.0Ω/M′ 49.2Ω/km	2.9Ω/M′ 9.5Ω/km	.620	15.75	70	60%	35	115	63	207

DCR = DC Resistance • TC = Tinned Copper

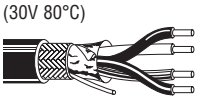
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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Overall Foil/Braid Shield

Computer P.O.S. Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Solid TC Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (90% Coverage) • TC Drain Wire																		
Polyethylene Insulation • Black PVC Jacket																		
UL AWM Style 2582 (150V 60°C) 	**1268A**	NEC: CM CEC: CM	2	Red & Blue, Black & Yellow	1000	304.8	48.0	21.8	16.5Ω/M′ 54.1Ω/km	3.7Ω/M′ 12.1Ω/km	.270	6.86	100	66%	15.5	50.9	27.5	90.2
Plenum • Solid FEP Insulation • Black FEP Jacket																		
300V RMS, Non-conduit 	**1269A**	NEC: MPP, CMP CEC: MPP, CMP FT6	2	Red & Blue, Black & Yellow	1000†	304.8	48.0	21.8	16.5Ω/M′ 54.1Ω/km	2.1Ω/M′ 6.9Ω/km	.240	6.10	100	69.5%	15.5	50.9	27.0	88.6
22 AWG Solid TC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (58% Coverage) • TC Drain Wire																		
Polyethylene Insulation • Black PVC Jacket																		
UL AWM Style 2582 (150V 60°C) 	**9855**	NEC: CM CEC: CM	2	Red & Blue, Black & Yellow	U-500 500 1000 10000††	U-152.4 152.4 304.8 3048.0	20.0 18.5 40.0 410.0	9.1 8.4 18.2 186.4	16.5Ω/M′ 54.1Ω/km	4.2Ω/M′ 13.8Ω/km	.270	6.86	100	66%	15.5	50.9	27.5	90.2
22 AWG Solid TC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (55% Coverage) + Polyester Tape • Drain Wire																		
Plenum • Solid FEP Insulation • Black FEP Jacket																		
300V RMS, Non-conduit 	**89855**	NEC: MPP, CMP CEC: MPP, CMP FT6	2	1 Pair: Red & Blue 1 Pair: Black & Yellow	500† 1000†	152.4 304.8	22.5 42.0	10.2 19.1	16.5Ω/M′ 54.1Ω/km	4.9Ω/M′ 16.1Ω/km	.272	6.91	100	69.5%	15.5	50.9	27.0	88.6
22 AWG Solid BC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (58% Coverage) • TC Drain Wire																		
Polyethylene Insulation • Black PVC Jacket																		
UL AWM Style 2919 (30V 80°C) 	**9696**	NEC: CM CEC: CM	2	1 Pair: Blue & White w/Blue Stripe 1 Pair: Orange & White w/Orange Stripe	500 1000	152.4 304.8	23.5 44.0	10.7 20.0	14.2Ω/M′ 46.6Ω/km	4.2Ω/M′ 13.8Ω/km	.290	7.37	100	66%	16.0	52.5	27.5	90.2
22 AWG Solid BC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (55% Coverage) • TC Drain Wire																		
Plenum • Solid FEP Insulation • Black FEP Jacket																		
300V RMS, Non-conduit 	**89696**	NEC: MPP, CMP CEC: MPP, CMP FT6	2	1 Pair: Blue & White w/Blue Stripe 1 Pair: Orange & White w/Orange Stripe	500† 1000†	152.4 304.8	25.0 46.0	11.4 20.9	16.5Ω/M′ 54.1Ω/km	4.2Ω/M′ 13.8Ω/km	.262	6.65	100	69.5%	15.5	50.9	27.0	88.6

For Plenum version of 1268A, see 1269A.

For Plenum version of 9855, see 89855.

For Plenum version of 9696, see 89696.

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

†Spools are one piece, but length may vary ±10% from length shown.
††Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.

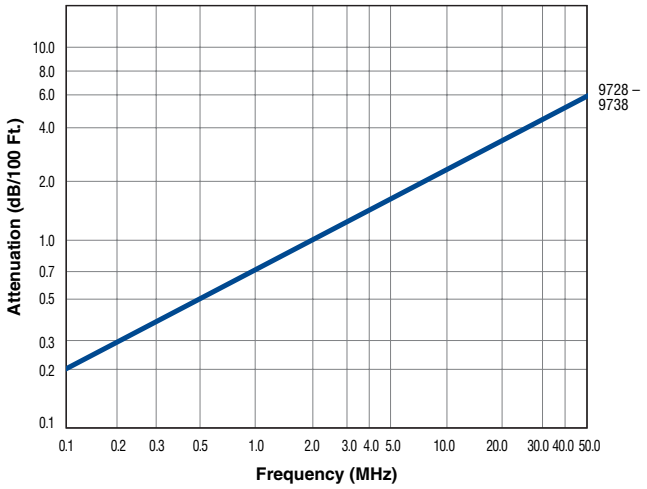
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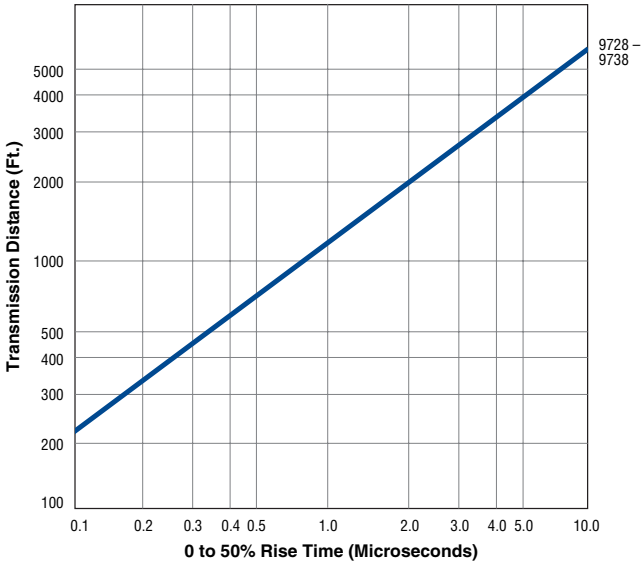
Individually Shielded

Cable Characteristics

Attenuation

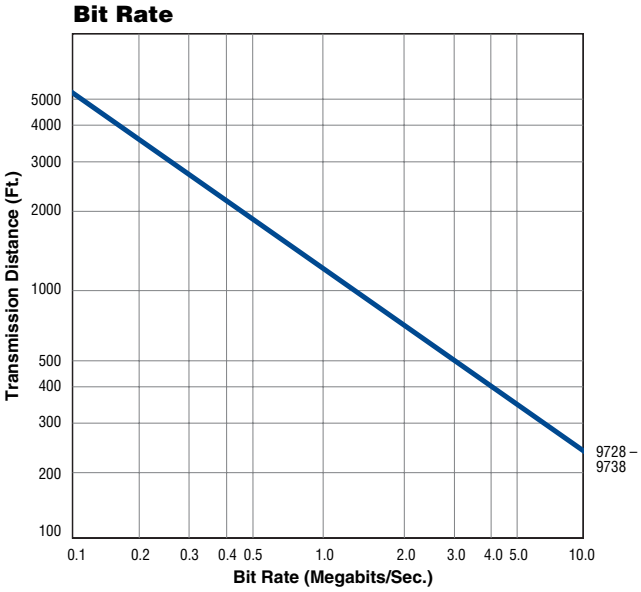


Rise Time



Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 ohms and 10% to 90% rise time less than 5 nanoseconds.

Bit Rate



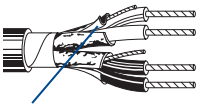
Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.

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Individually Shielded

Low-Capacitance 100 Ohm Computer Cables for EIA RS-422, and Digital Audio Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (300V 60°C)  Z-Fold®	**9729**	NEC: CM CEC: CM	2	See Chart 3 (Tech Info Section)	100 500 1000 10000†	30.5 152.4 304.8 3048.0	4.3 20.5 39.0 390.0	2.0 9.3 17.7 177.8	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.266	6.76	100	76%	12.5	41.0	23.2	76.1
															For Plenum version of 9729, see 89729 or 82729.			
	9730	NEC: CM CEC: CM	3	See Chart 3 (Tech Info Section)	100 500 1000 10000†	30.5 152.4 304.8 3048.0	5.1 24.5 46.0 520.0	2.3 11.1 20.9 236.4	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.334	8.48	100	76%	12.5	41.0	23.2	76.1
															For Plenum version of 9730, see 89730.			
	9728	NEC: CM CEC: CM	4	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.0 29.0 51.0	2.7 13.2 23.1	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.363	9.22	100	76%	12.5	41.0	23.2	76.1
															For Plenum version of 9728, see 89728.			
	9731	NEC: CM CEC: CM	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.4 42.0 83.0	3.4 19.1 37.7	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.421	10.69	100	76%	12.5	41.0	23.2	76.1
															For Plenum version of 9731, see 89731.			
	9732	NEC: CM CEC: CM	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.9 57.0 106.0	4.5 26.0 48.1	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.488	12.40	100	76%	12.5	41.0	23.2	76.1
															For Plenum version of 9732, see 89732.			
	9733	NEC: CM CEC: CM	11	See Chart 3 (Tech Info Section)	500	152.4	75.0	34.1	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.575	14.61	100	76%	12.5	41.0	23.2	76.1
	9734	NEC: CM CEC: CM	12	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	79.5 154.0	36.1 70.0	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.575	14.61	100	76%	12.5	41.0	23.2	76.1
	9735	NEC: CM CEC: CM	15	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	95.0 185.0	43.2 84.1	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.639	16.23	100	76%	12.5	41.0	23.2	76.1
	9736	NEC: CM CEC: CM	17	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	103.5 210.0	47.0 95.5	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.671	17.04	100	76%	12.5	41.0	23.2	76.1
	9737	NEC: CM CEC: CM	19	See Chart 3 (Tech Info Section)	1000	304.8	231.0	105.0	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.671	17.04	100	76%	12.5	41.0	23.2	76.1
	9738	NEC: CM CEC: CM	27	See Chart 3 (Tech Info Section)	1000	304.8	334.0	151.8	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.2Ω/km	.797	20.24	100	76%	12.5	41.0	23.2	76.1

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.

See Attenuation, Rise Time and Bit Rate Data for this series on page 5.34.

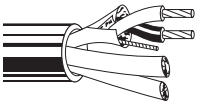
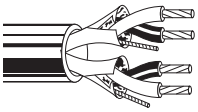
Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Individually Shielded

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422, and Digital Audio Applications
Plenum-Rated

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																		
300V RMS 	**89729**	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	17.0 31.0	7.7 14.1	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.261	6.63	100	76%	13.5	44	22.5	73.8
	89730	NEC: CMP CEC: CMP FT6	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	21.5 40.0	9.8 18.2	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.278	7.06	100	76%	13.5	44	22.5	73.8
	89728	NEC: CMP CEC: CMP FT6	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	26.5 50.0	12.0 22.7	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.307	7.80	100	76%	13.5	44	22.5	73.8
	89731	NEC: CMP CEC: CMP FT6	6	See Chart 5 (Tech Info Section)	500 1000†	152.4 304.8	35.0 71.0	15.9 32.3	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.361	9.17	100	76%	13.5	44	22.5	73.8
	89732	NEC: CMP CEC: CMP FT6	9	See Chart 5 (Tech Info Section)	1000	304.8	108.0	49.0	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.429	10.90	100	76%	13.5	44	22.5	73.8
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 	**82729**	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	U-1000 1000	U-304.8 304.8	26.0 28.0	11.8 12.7	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.255	6.48	100	76%	13.5	44	22.5	73.8

DCR = DC Resistance • TC = Tinned Copper

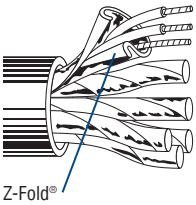
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools are one piece, but length may vary ±10% from length shown.

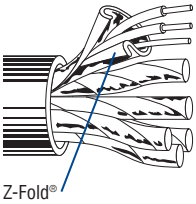
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Individually Shielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)  Z-Fold®	**9990**	NEC: CM CEC: CM	3	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	16.0 36.0	7.3 16.4	24.0Ω/M′ 78.7Ω/km	18.0Ω/M′ 59.1Ω/km	.255	6.48	60	66%	25	82	47	154
	9991	NEC: CM CEC: CM	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.7 32.5 62.0	3.1 14.7 28.3	24.0Ω/M′ 78.7Ω/km	18.0Ω/M′ 59.1Ω/km	.330	8.38	60	66%	25	82	47	154
	9992	NEC: CM CEC: CM	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.8 42.5 86.0	4.0 19.3 39.1	24.0Ω/M′ 78.7Ω/km	18.0Ω/M′ 59.1Ω/km	.383	9.73	60	66%	25	82	47	154
	9993	NEC: CM CEC: CM	12	See Chart 3 (Tech Info Section)	100 1000	30.5 304.8	9.8 107.0	4.5 48.6	24.0Ω/M′ 78.7Ω/km	18.0Ω/M′ 59.1Ω/km	.428	10.87	60	66%	25	82	47	154
	9995	NEC: CM CEC: CM	25	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	21.2 116.0 228.0	9.7 52.7 103.6	24.0Ω/M′ 78.7Ω/km	18.0Ω/M′ 59.1Ω/km	.636	16.15	60	66%	25	82	47	154

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Insulation Thickness Inch	Insulation Thickness mm	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Nominal Capacitance * pF/ Ft.	Nominal Capacitance * pF/ m	Nominal Capacitance ** pF/ Ft.	Nominal Capacitance ** pF/ m
22 AWG Solid Conductors • TC • Twisted Pairs • Individually Shielded w/ Beldfoil (100% Coverage) • 22 AWG Solid TC Drain Wire																		
PVC Insulation • Overall Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C)  Z-Fold®	**8767**	NEC: MPG, CMG CEC: MPG, CMG FT4	3	See Chart 3 (Tech Info Section)	U-500 500 1000	U-152.4 152.4 304.8	22.5 23.0 46.0	10.3 10.5 21.0	.013	.33	.037	.94	.279	7.10	40	131	77	253
	8768	NEC: MPG, CMG CEC: MPG, CMG FT4	6	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	46.5 92.0	21.1 41.8	.013	.33	.037	.94	.379	9.60	40	131	77	253
	8764	NEC MPG, CMG CEC: MPG, CMG FT4	9	See Chart 3 (Tech Info Section)	1000	304.8	122.0	55.5	.013	.33	.040	1.02	.425	10.80	40	131	77	253
	8765	NEC MPG, CMG CEC: MPG, CMG FT4	11	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	76.5 149.0	34.8 67.7	.013	.33	.040	1.02	.470	11.90	40	131	77	253
	8766	NEC: MPG, CMG CEC: MPG, CMG FT4	15	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	101.5 196.0	46.1 89.1	.013	.33	.045	1.14	.525	13.30	40	131	77	253

DCR = DC Resistance • TC = Tinned Copper

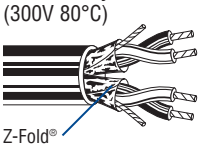
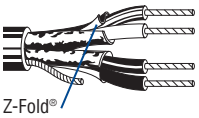
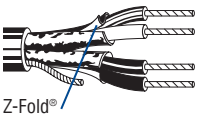
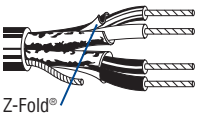
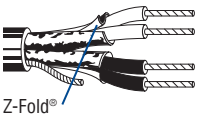
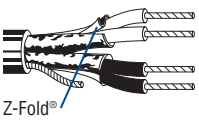
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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Individually Shielded

Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Semi-rigid PVC Insulation • Pale Fawn Beige PVC Jacket (Shielded Pairs Parallel under Jacket)																		
UL AWM Style 2464 (300V 80°C)  Z-Fold®	**9406**	NEC: CMG CEC: CMG FT4	2	Black & White, Black & Yellow	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.8 16.5 17.0 32.0 33.0	1.7 7.5 7.7 14.5 15.0	15.0Ω/M′ 49.2Ω/km	13.0Ω/M′ 42.7Ω/km	.173 x .280	4.39 x 7.11	50	60%	50	164	95	312
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS 60°C  Z-Fold®	**8723**	NEC: CM CEC: CM	2	Red & Black, Green & White	100 U-500 500 U-1000 1000 1640 U-2000 2000 3280 5000 10000	30.5 U-152.4 152.4 U-304.8 304.8 499.9 U-609.6 609.6 999.7 1524.0 3048.0	2.3 10.5 10.0 20.0 20.0 32.8 38.0 40.0 65.6 95.0 200.0	1.0 4.8 4.5 9.1 9.1 14.9 17.2 18.2 29.8 43.2 90.9	15.0Ω/M′ 49.2Ω/km	16.6Ω/M′ 54.5Ω/km	.160	4.06	45	66%	35	115	62	203
Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS 60°C  Z-Fold®	**8723SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	2	Red & Black, Green & White	1000	304.8	26.0	11.8	14.7Ω/M′ 48.2Ω/km	15.0Ω/M′ 49.2Ω/km	.196	4.98	45	66%	35	115	62	203
Plenum • FEP Insulation • Natural Flamarrest® Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS, Non-conduit  Z-Fold®	**82723**	NEC: CMP CEC: CMP FT6	2	Red & Black, Green & White	U-500† U-1000 1000† U-2000†	U-152.4 U-304.8 304.8 U-609.6	10.5 20.0 19.0 40.0	4.8 9.1 8.6 18.1	14.7Ω/M′ 48.2Ω/km	16.6Ω/M′ 54.5Ω/km	.153	3.89	36	62%	43	141	75	246
Plenum • FEP Insulation • Red FEP Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS, Non-conduit  Z-Fold®	**88723**	NEC: CMP CEC: CMP FT6	2	Red & Black, Green & White	100† 500† 1000†	30.5 152.4 304.8	3.4 11.0 19.0	1.5 5.0 8.6	16.0Ω/M′ 52.5Ω/km	14.7Ω/M′ 48.2Ω/km	.148	3.76	40	69%	35	115	67	220
Plenum • FEP Insulation • Red Fluorocopolymer Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS, Non-conduit  Z-Fold®	**87723**	NEC: CMP CEC: CMP FT6	2	Red & Black, Green & White	500† 1000†	152.4 304.8	11.0 20.0	5.0 9.1	14.7Ω/M′ 48.2Ω/km	15.0Ω/M′ 49.2Ω/km	.148	3.76	40	69%	35	115	67	220

For Plenum versions of 8723, see 88723, 87723 or 82723.

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length show.

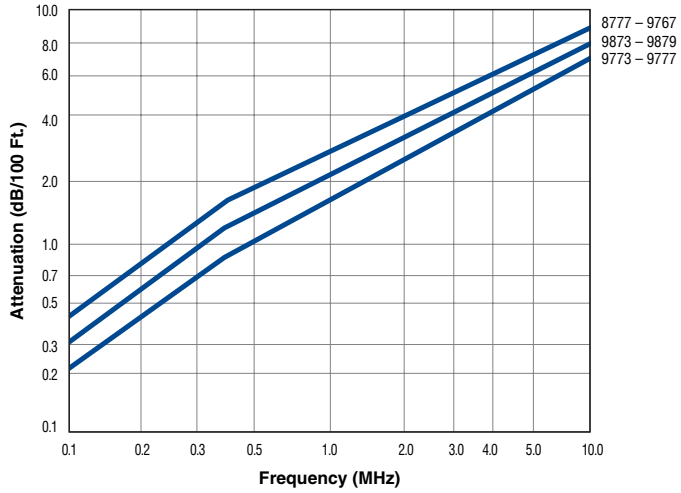
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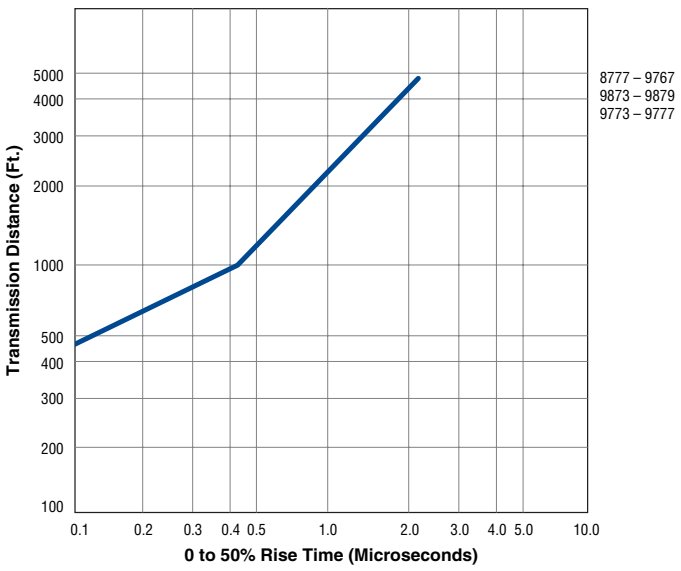
Individually Shielded

Cable Characteristics

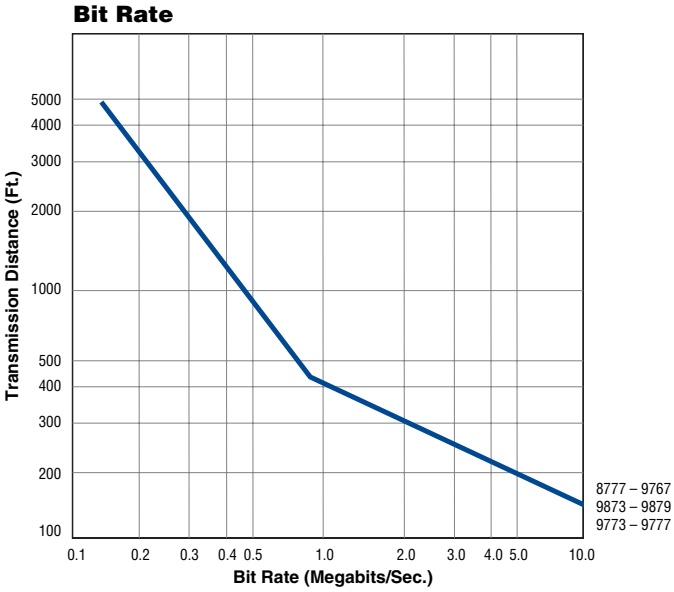
Attenuation



Rise Time



Bit Rate



Recommended for audio, pulse, and radio frequency applications requiring superior circuit isolation.

Insulation resistance between shields:
100 megohms/M′ nom.

Capacitance between adjacent shields:
115 pf/ft. nom.

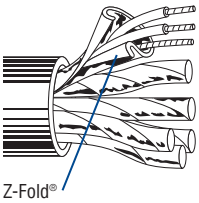
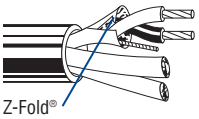
Working voltage between adjacent shields:
50 volts max.

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Individually Shielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)  Z-Fold®	**8777**	NEC: CM CEC: CM	3	See Chart 3 (Tech Info Section)	100 250 U-500 500 U-1000 1000 1640 3280 5000 10000 ††	30.5 76.2 U-152.4 152.4 U-304.8 304.8 499.9 999.7 1524.0 3048.0	4.7 10.0 21.0 20.0 41.0 44.0 70.5 141.0 215.0 460.0	2.1 4.5 9.5 9.1 18.6 20.0 32.0 64.0 97.6 208.8	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.273	6.93	50	66%	30	98	55	180
															For Plenum versions of 8777, see 88777, 87777 or 82777.			
	8778	NEC: CM CEC: CM	6	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	8.4 19.0 43.0 83.0	3.8 8.6 19.5 37.7	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.362	9.19	50	66%	30	98	55	180
															For Plenum versions of 8778, see 88778, 87778 or 82778.			
	8774	NEC: CM CEC: CM	9	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	11.5 29.5 57.5 113.0	5.2 13.4 26.1 51.3	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.417	10.59	50	66%	30	98	55	180
	8775	NEC: CM CEC: CM	11	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.1 65.5 130.0	5.5 29.7 59.0	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.464	11.79	50	66%	30	98	55	180
	9768	NEC: CM CEC: CM	12	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	13.2 36.5 73.5 143.0	6.0 16.5 33.4 65.0	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.464	11.79	50	66%	30	98	55	180
	8776	NEC: CM CEC: CM	15	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	17.8 49.5 98.0 197.0	8.1 22.5 44.5 89.5	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.548	13.92	50	66%	30	98	55	180
	9769	NEC: CM CEC: CM	17	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	20.0 109.0 215.0	9.1 49.5 97.7	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.577	14.66	50	66%	30	98	55	180
	8769	NEC: CM CEC: CM	19	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	22.9 123.0 244.0	10.4 55.8 110.8	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.603	15.32	50	66%	30	98	55	180
	8773	NEC: CM CEC: CM	27	See Chart 3 (Tech Info Section)	100 250 † 500 1000	30.5 76.2 152.4 304.8	33.9 83.8 163.0 341.0	15.4 38.0 74.0 154.8	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.709	18.00	50	66%	30	98	55	180
	9767	NEC: CM CEC: CM	37	See Chart 3 (Tech Info Section)	500 † 1000 †	152.4 304.8	224.0 481.0	101.8 218.6	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.800	20.32	50	66%	30	98	55	180
Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket																		
U300V RMS, Non-conduit  Z-Fold®	**8777SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	3	See Chart 3 (Tech Info Section)	U-500 † U-1000 1000 †	U-152.4 U-304.8 304.8	19.5 38.0 39.0	8.9 17.3 17.7	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.273	6.93	50	66%	30	98	55	180

DCR = DC Resistance • TC = Tinned Copper

See Attenuation, Rise Time and Bit Rate Data for this series on page 5.39.

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

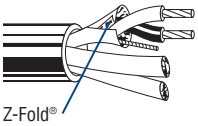
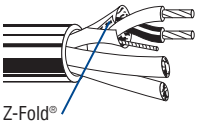
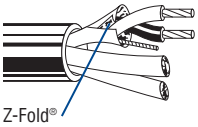
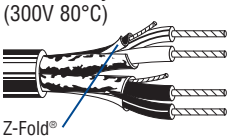
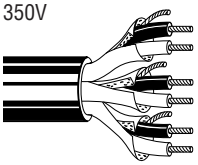
† Spools are one piece, but length may vary -0 to +20% from length shown.
†† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.

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Individually Shielded

Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS  Z-Fold®	**82777**	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	U-500† U-1000 1000†	U-152.4 U-304.8 304.8	19.5 38.0 39.0	8.9 17.3 17.7	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.237	6.02	46	62%	35	115	76	249
	82778	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	1000†	304.8	71.0	32.2	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.314	7.98	46	62%	35	115	76	249
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS  Z-Fold®	**88777**	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	6.0 19.0 42.0	2.7 8.6 19.1	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.234	5.94	50	69%	31	102	67	220
	88778	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	7.0 38.5 75.0	3.2 17.4 34.1	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.309	7.85	50	69%	31	102	67	220
Plenum • FEP Insulation • Red Fluorocopolymer Jacket																		
300V RMS  Z-Fold®	**87777**	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	500† 1000†	152.4 304.8	18.0 40.0	8.2 18.2	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.234	5.94	50	69%	31	102	67	220
	87778	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	500† 1000†	152.4 304.8	37.5 73.0	17.0 33.2	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.309	7.85	50	69%	31	102	67	220
20 AWG Stranded (7x28) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Semi-rigid PVC Insulation • Overall Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C)  Z-Fold®	**9402**	NEC: CMG CEC: CMG FT4	2	Red & Black, Green & White	U-500 1000	U-152.4 304.8	26.0 52.0	11.8 23.7	—	—	.300 Insulation Thickness .010 Jacket Thickness .041	7.62 .25 1.04	—	—	55	180	95	312
20 AWG Stranded (10x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Black High-density Polyethylene Jacket																		
350V 	**9883**		3	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	28.5 57.0	12.9 25.9	6.4Ω/M′ 21.0Ω/km	11.2Ω/M′ 36.8Ω/km	.340	8.64	50	66%	30	98	55	180
	9886		6	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	56.0 108.0	25.4 49.0	6.4Ω/M′ 21.0Ω/km	11.2Ω/M′ 36.8Ω/km	.455	11.56	50	66%	30	98	55	180

DCR = DC Resistance • TC = Tinned Copper

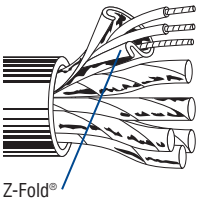
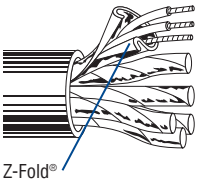
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

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Individually Shielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
20 AWG Stranded (7x28) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Overall Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)	**9873**	NEC: CM CEC: CM	3	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	6.6 14.5 32.5 58.0	3.0 6.6 14.8 26.3	10.5Ω/M′ 34.4Ω/km	14.0Ω/M′ 45.9Ω/km	.341	8.66	50	66%	30	98	55	180
 Z-Fold®	**9874**	NEC: CM CEC: CM	6	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	10.3 29.0 56.5 113.0	4.7 13.2 25.7 51.3	10.5Ω/M′ 34.4Ω/km	11.3Ω/M′ 37.1Ω/km	.445	11.30	50	66%	30	98	55	180
	9875	NEC: CM CEC: CM	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	17.7 97.0 187.0	8.1 44.0 88.4	10.5Ω/M′ 34.4Ω/km	11.3Ω/M′ 37.1Ω/km	.555	14.10	50	66%	30	98	55	180
	9876	NEC: CM CEC: CM	11	See Chart 3 (Tech Info Section)	1000	304.8	220.0	100.0	10.5Ω/M′ 34.4Ω/km	11.3Ω/M′ 37.1Ω/km	.600	15.24	50	66%	30	98	55	180
	9877	NEC: CM CEC: CM	12	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	22.1 119.0 237.0	10.1 54.1 107.7	10.5Ω/M′ 34.4Ω/km	11.3Ω/M′ 37.1Ω/km	.617	15.67	50	66%	30	98	55	180
	9879	NEC: CM CEC: CM	15	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	146.0 296.0	66.4 134.5	10.5Ω/M′ 34.4Ω/km	11.3Ω/M′ 37.1Ω/km	.689	17.50	50	66%	30	98	55	180
18 AWG Stranded (19x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)	**9773**	NEC: CM CEC: CM	3	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.8 52.5 107.0	4.9 23.8 48.6	6.4Ω/M′ 21.0Ω/km	8.3Ω/M′ 27.2Ω/km	.404	10.26	50	66%	30	98	55	180
 Z-Fold®	**9774**	NEC: CM CEC: CM	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	16.1 89.5 176.0	7.3 40.9 80.8	6.4Ω/M′ 21.0Ω/km	8.3Ω/M′ 27.2Ω/km	.560	14.22	50	66%	30	98	55	180
	9775	NEC: CM CEC: CM	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	25.8 123.0 241.0	11.7 55.8 109.4	6.4Ω/M′ 21.0Ω/km	8.3Ω/M′ 27.2Ω/km	.655	16.64	50	66%	30	98	55	180
	9776	NEC: CM CEC: CM	12	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	31.6 151.5 307.0	14.4 69.0 139.4	6.4Ω/M′ 21.0Ω/km	8.3Ω/M′ 27.2Ω/km	.735	18.67	50	66%	30	98	55	180
	9777	NEC: CM CEC: CM	15	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	38.8 194.0 421.0	17.6 88.1 191.1	6.4Ω/M′ 21.0Ω/km	8.3Ω/M′ 27.2Ω/km	.819	20.80	50	66%	30	98	55	180

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.39.

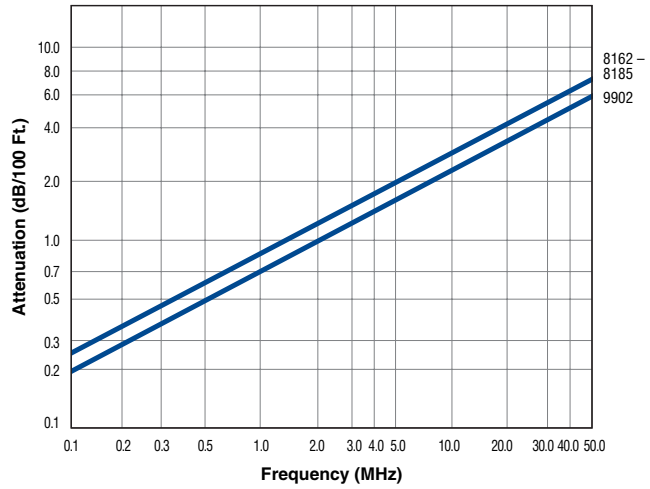
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Individually Shielded Pairs with Overall Foil/Braid Shield

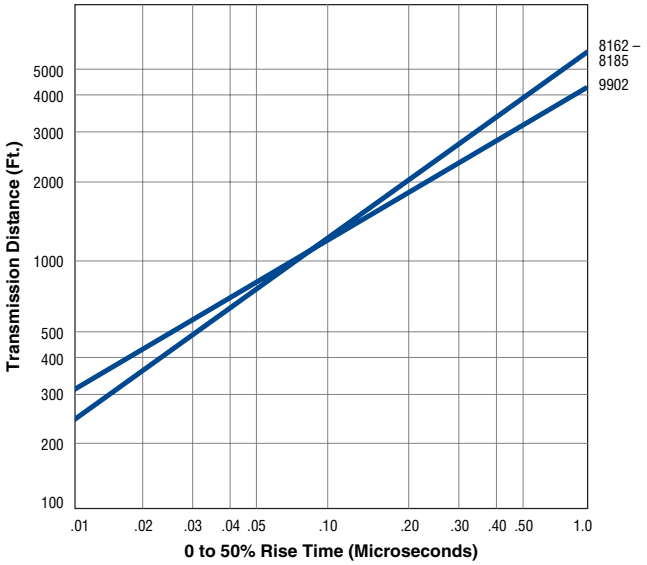
Cable Characteristics

Attenuation



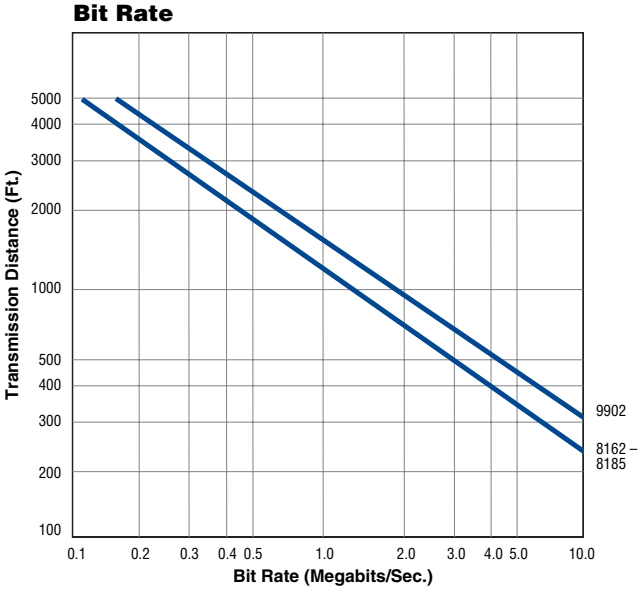
Note: see index for 9902 page number.

Rise Time



Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 ohms and 10% to 90% rise time less than 5 nanoseconds.

Bit Rate



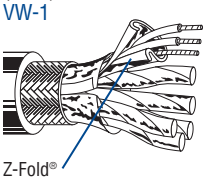
Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.

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Individually Shielded Pairs with Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422, and Digital Audio Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs Individually Beldfoil® Shielded + Overall Beldfoil (100% Coverage) + TC Braid Shield (65%) • Drain Wire▲																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (60°C) VW-1  Z-Fold®	**8162**	NEC: CM CEC: CM	2	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.2 30.0 57.0	2.8 13.6 25.9	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 4.3Ω/M′ 14.1Ω/km	.343	8.71	100	78%	12.5	41	22	72.2
	8163	NEC: CM CEC: CM	3	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.0 34.0 66.0	3.2 15.5 30.0	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 4.4Ω/M′ 14.4Ω/km	.359	9.12	100	78%	12.5	41	22	72.2
	8164	NEC: CM CEC: CM	4	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.2 39.5 79.0	3.7 18.0 35.9	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 3.2Ω/M′ 10.5Ω/km	.388	9.86	100	78%	12.5	41	22	72.2
	8165	NEC: CM CEC: CM	5	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.0 45.0 89.0	4.1 20.5 40.5	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 3.4Ω/M′ 11.2Ω/km	.413	10.49	100	78%	12.5	41	22	72.2
	8166	NEC: CM CEC: CM	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.0 50.0 99.0	4.1 22.7 45.0	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 2.8Ω/M′ 9.2Ω/km	.446	11.33	100	78%	12.5	41	22	72.2
	8167	NEC: CM CEC: CM	7	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	52.5 103.0	23.9 46.7	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 2.8Ω/M′ 9.2Ω/km	.446	11.33	100	78%	12.5	41	22	72.2

▲24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

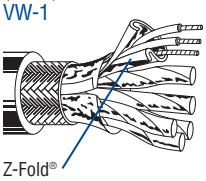
Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Individually Shielded Pairs with Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422, and Digital Audio Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs Individually Beldfoil® Shielded + Overall Beldfoil (100% Coverage) + TC Braid Shield (65%) • Drain Wire▲																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (60°C) VW-1  Z-Fold®	**8168**	NEC: CM CEC: CM	8	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.8 61.5 115.0	4.9 28.0 52.3	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 3.0Ω/M′ 9.8Ω/km	.479	12.17	100	78%	12.5	41	22	72.2
	8170	NEC: CM CEC: CM	10	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	18.0 83.0 164.0	8.2 37.7 74.5	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 2.7Ω/M′ 8.9Ω/km	.584	14.83	100	78%	12.5	41	22	72.2
	8175	NEC: CM CEC: CM	15	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	22.6 107.5 210.0	10.3 48.9 95.5	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 2.5Ω/M′ 8.2Ω/km	.665	16.89	100	78%	12.5	41	22	72.2
	8178	NEC: CM CEC: CM	18	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	24.6 117.0 238.0	11.2 53.2 108.2	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 2.6Ω/M′ 8.5Ω/km	.686	17.42	100	78%	12.5	41	22	72.2
	8185	NEC: CM CEC: CM	25	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	32.3 160.5 356.0	14.7 73.0 161.8	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/M′ 59.1Ω/km Overall: 2.4Ω/M′ 7.9Ω/km	.822	20.88	100	78%	12.5	41	22	72.2

▲24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

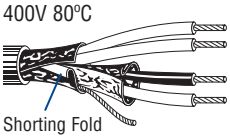
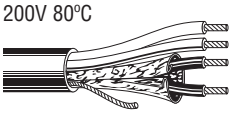
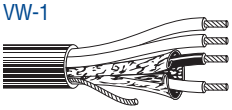
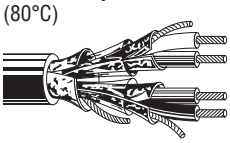
**Capacitance between one conductor and other conductors connected to shield.

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Combination Shields

Special Audio, Communication and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
25 AWG Stranded (7x33) Tinned Copper Conductors • Overall Beldfoil® Shield (100% Coverage) • 25 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
400V 80ºC	**8434**		2	Shielded: Red & Black	100	30.5	2.1	1.0	.013	.33	.020	.51	.165	4.19	25	82	40	131
 Shorting Fold					500	152.4	7.0	3.2										
				Unshielded: Green & White	U-1000	U-304.8	14.0	6.4										
					1000	304.8	12.0	5.5										
Red/Black pair 100% Beldfoil shielded with drain wire. 3 copper, 4 copper-covered steel strands in each conductor.																		
22 AWG Stranded (7x30) Tinned Copper Conductors • One Pair Beldfoil Shielded (100% Coverage) • Stranded Tinned Copper Drain Wire																		
PVC Insulation • Chrome PVC Jacket (Pair and Single Cabled)																		
300V RMS 90ºC	**9685**	NEC: CM	1.5 (1 pair + 1 single)	Shielded: Black & White	U-1000	U-304.8	24.0	10.9	.013	.33	.032	.81	.199	5.05	60	197	99	325
				Unshielded: Brown														
Meets NEC Article 800 22 AWG drain wire																		
Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
200V 80ºC	**8730**†		2	Shielded: Red & Black	U-1000	U-304.8	24.0	10.9	.008	.20	.030	.76	.205	5.21	34	112	67	220
					1000	304.8	26.0	11.8										
24 AWG drain wire				Unshielded: Green & White														
300V 80ºC VW-1	**8724**†	NEC: CM CEC: CM	2	Shielded: Red & Black	U-1000	U-304.8	21.0	9.5	.008	.20	.019	.48	.165	4.19	34	112	67	220
					1000	304.8	21.0	9.5										
24 AWG drain wire				Unshielded: Green & White														
22 AWG Stranded (7x30) TC Conductors • Cabled in Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wires																		
Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
UL AWM Style 2717 (80°C)	**8728**	NEC: CM CEC: CM	2	Black & Red	U-500	U-152.4	15.5	7.0	.010	.25	.028	.71	.215	5.46	35	115	62	203
					500	152.4	15.5	7.0										
				Green & White	U-1000	U-304.8	30.0	13.6										
					1000	304.8	31.0	14.0										
Meets NEC Article 800 Each pair Beldfoil shielded with individual drain wire plus polyester film over each shield.																		

TC = Tinned Copper

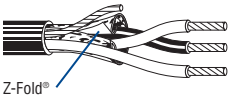
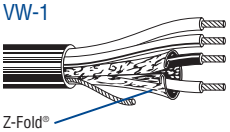
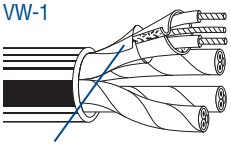
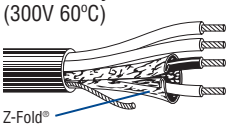
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
† Request Technical Bulletin T/8-21 before planning high and low level circuits in the same cable.

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Combination Shields

Special Audio, Communication and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
20 AWG Stranded (7x28) TC Conductors • Conductors Cabled • Beldfoil® Shield as noted (100% Coverage) • 20 or 22 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
350V 80ºC	**8763**	—	1.5 (1 pair + 1 single)	Shielded: Black & Red Unshielded: Clear	1000	304.8	25.0	11.4	.014	.36	.028	.71	.210	5.33	26	85	48	157
 Z-Fold®																		
Beldfoil shield over Red and Black pair only. Clear conductor is unshielded. 20 AWG drain wire.																		
PVC Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
350V 80ºC VW-1	**8722**	NEC: CMG CEC: CMG FT4	2	Shielded: Red & Black Unshielded: Green & White	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	18.0 18.5 35.0 36.0	8.2 8.4 15.9 16.4	.015	.38	.028	.71	.226	5.74	60	197	99	325
 Z-Fold®																		
Beldfoil shield over Red and Black conductors only. 22 AWG drain wire. Request Technical Bulletin T/8-21 before planning high and low level circuits in the same cable.																		
Polypropylene Insulation • Chrome PVC Jacket (Cabled Around a Common Axis)																		
400V 105ºC VW-1	**8725**	NEC: CM CEC: CM	4	Red & Black; Green & White; White/Red & White/Black; White/Green & White/Yellow	500 1000	152.4 304.8	38.0 74.0	17.3 33.6	.015	.38	.030	.76	.345	8.76	27	89	49	161
 Shorting Fold																		
Four groups of two conductors with drain wires, each group individually Beldfoil shielded with polyester tape wrap. 22 AWG drain wire.																		
20 and 18 AWG Stranded (7x28 and 16x30) TC Conductors • Beldfoil Shield (100% Coverage) over 20 AWG Pair • 22 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Beige PVC Jacket																		
UL AWM Style 2094 (300V 60ºC)	**9155**	NEC: CM CEC: CM	2 1 Shld 20 (7x28) Black & Red 1 Unshld 18 (16x30) Green & White		500 U-1000 1000	152.4 U-304.8 304.8	22.5 46.0 48.0	10.2 20.9 21.8	.020 .019	.51 .48	.031	.79	.262	6.65	24 22	79 72	46	151
 Z-Fold®																		
NEC Article 800																		

TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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Plenum-Rated

Unshielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs														
Plenum • FEP Insulation • Red FEP Jacket														
300V RMS 	**88442**	NEC: CMP CEC: CMP FT6	1	Black & Red	100 500† 1000†	30.5 152.4 304.8	2.3 5.5 8.0	1.0 2.5 3.6	.006	.15	.012	.30	.102	2.59
	88741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	500† 1000†	152.4 304.8	8.0 16.0	3.6 7.3	.006	.15	.012	.30	.169	4.29
	88757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	500† 1000†	152.4 304.8	14.0 28.0	6.4 12.7	.006	.15	.012	.30	.200	5.08
Plenum • FEP Insulation • Natural Flamarrest® Jacket														
300V RMS 	**82442**	NEC: CMP CEC: CMP FT6	1	Black & Red	U-1000† 1000†	U-304.8 304.8	9.0 8.0	4.1 3.6	.006	.15	.014	.36	.112	2.84
	82741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	U-1000† 1000†	U-304.8 304.8	18.0 20.0	8.2 9.1	.006	.15	.014	.36	.179	4.55
	82742	NEC: CMP CEC: CMP FT6	3	Black & Red, Black & White, Black & Green	U-1000† 1000†	U-304.8 304.8	24.0 26.0	10.9 11.8	.006	.15	.014	.36	.191	4.85
	82757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	1000	304.8	32.0	14.5	.006	.15	.014	.36	.210	5.33
	82743	NEC: CMP CEC: CMP FT6	6	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown	U-1000 1000	U-304.8 304.8	44.0 46.0	20.0 20.9	.006	.15	.015	.38	.238	6.05
18 AWG Stranded (19x30) Tinned Copper Conductors • Twisted Pair														
Plenum • FEP Insulation • Red FEP Jacket														
300V RMS 	**89740**	NEC: CMP CEC: CMP FT6	1	Black & Red	100 500† 1000†	30.5 152.4 304.8	3.0 9.0 15.0	1.4 4.1 6.8	.006	.15	.009	.23	.136	3.45
Plenum • FEP Insulation • Red Fluorocopolymer Jacket														
300V RMS 	**87740**	NEC: CMP CEC: CMP FT6	1	Black & Red	500† 1000†	152.4 304.8	9.0 17.0	4.1 7.7	.006	.15	.011	.28	.140	3.56
Plenum • FEP Insulation • Natural Flamarrest Jacket														
300V RMS 	**82740**	NEC: CMP CEC: CMP FT6	1	Black & Red	U-1000 1000	U-304.8 304.8	17.0 16.0	7.7 7.3	.006	.15	.015	.38	.147	3.73

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

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Plenum-Rated

Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 	**88641**	NEC: CMP CEC: CMP FT6	1	Black & Red	100 500† 1000†	30.5 152.4 304.8	2.4 6.0 9.0	1.1 2.7 4.1	.006	.15	.014	.36	.106	2.69	31	102	59	194
	89503	NEC: CMP CEC: CMP FT6	3	Black & White, Black & Red, Black & Green	100 500† 1000†	30.5 152.4 304.8	4.0 10.5 21.0	1.8 4.8 9.5	.006	.15	.014	.36	.175	4.45	21	69	40	131
	89504	NEC: CMP CEC: CMP FT6	4	Black & White, Black & Red, Black & Green, Black & Blue	500† 1000†	152.4 304.8	13.0 29.0	5.9 13.2	.006	.15	.014	.36	.192	4.88	21	69	40	131
	89505	NEC: CMP CEC: CMP FT6	5	Black & White, Black & Red, Black & Green, Black & Blue, Black & Yellow	100 1000†	30.5 304.8	4.9 33.0	2.2 15.0	.006	.15	.014	.36	.197	5.00	21	69	40	131
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 	**82641**	NEC: CMP CEC: CMP FT6	1	Black & Red	U-1000 1000	U-304.8 304.8	9.0 8.0	4.1 3.6	.006	.15	.014	.36	.106	2.69	31	102	59	194
	82502	NEC: CMP CEC: CMP FT6	2	Black & White, Black & Red	U-500 U-1000 1000	U-152.4 U-304.8 304.8	8.0 16.0 14.0	3.6 7.3 6.4	.006	.15	.014	.36	.162	4.11	25	82	45	148
	82503	NEC: CMP CEC: CMP FT6	3	Black & White, Black & Red, Black & Green	U-1000 1000	U-304.8 304.8	19.0 18.0	8.6 8.2	.006	.15	.014	.36	.169	4.29	25	82	45	148
	82504	NEC: CMP CEC: CMP FT6	4	Black & White, Black & Red, Black & Green, Black & Blue	U-1000 1000	U-304.8 304.8	24.0 26.0	10.9 11.8	.006	.15	.014	.36	.193	4.90	25	82	45	148
	82505	NEC: CMP CEC: CMP FT6	5	See Chart 3 (Tech Info Section)	U-1000 1000	U-304.8 304.8	29.0 31.0	13.2 14.0	.006	.15	.015	.38	.196	4.98	25	82	45	148
	82506	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	U-500 U-1000 1000	U-152.4 U-304.8 304.8	17.5 34.0 35.0	8.0 15.5 15.9	.006	.15	.015	.38	.209	5.31	25	82	45	148
	82509	NEC: CMP CEC: CMP FT6	9	See Chart 3 (Tech Info Section)	1000	304.8	49.0	22.3	.006	.15	.015	.38	.246	6.25	23	75	42	138
	82512	NEC: CMP CEC: CMP FT6	12.5 (12 pairs + 1 single)	See Chart 3 (Tech Info Section)	1000	304.8	60.0	27.3	.006	.15	.015	.38	.278	7.06	23	75	42	138

TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

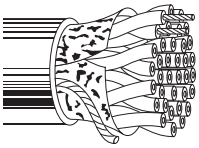
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Plenum-Rated

Overall Beldfoil® Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																		
300V RMS 	**88102**	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	10.0 20.0	4.5 9.1	24.0Ω/M′ 78.7Ω/km	15.5Ω/M′ 50.9Ω/km	.203	5.16	100	78%	12.95	42.5	23.3	76.4
	88103	NEC: CMP CEC: CMP FT6	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	13.5 31.0	6.1 14.1	24.0Ω/M′ 78.7Ω/km	15.5Ω/M′ 50.9Ω/km	.239	6.07	100	78%	12.95	42.5	23.3	76.4
	88104	NEC: CMP CEC: CMP FT6	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	17.0 38.0	7.7 17.3	24.0Ω/M′ 78.7Ω/km	14.0Ω/M′ 45.9Ω/km	.259	6.58	100	78%	12.95	42.5	23.3	76.4
	88105	NEC: CMP CEC: CMP FT6	5	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	23.5 44.0	10.7 20.0	24.0Ω/M′ 78.7Ω/km	14.0Ω/M′ 45.9Ω/km	.267	6.78	100	78%	12.95	42.5	23.3	76.4
	88106	NEC: CMP CEC: CMP FT6	6	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	26.5 50.0	12.0 22.7	24.0Ω/M′ 78.7Ω/km	14.0Ω/M′ 45.9Ω/km	.293	7.44	100	78%	12.95	42.5	23.3	76.4
	88107	NEC: CMP CEC: CMP FT6	7.5 (7 pairs + 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	31.0 59.0	14.1 26.8	24.0Ω/M′ 78.7Ω/km	14.0Ω/M′ 45.9Ω/km	.293	7.44	100	78%	12.95	42.5	23.3	76.4
	88109	NEC: CMP CEC: CMP FT6	9	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	36.5 74.0	16.6 33.6	24.0Ω/M′ 78.7Ω/km	13.0Ω/M′ 42.7Ω/km	.352	8.94	100	78%	12.95	42.5	23.3	76.4
	88112	NEC: CMP CEC: CMP FT6	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	48.0 97.0	21.8 44.1	24.0Ω/M′ 78.7Ω/km	11.8Ω/M′ 38.7Ω/km	.397	10.08	100	78%	12.95	42.5	23.3	76.4
	88118	NEC: CMP CEC: CMP FT6	18.5 (18 pairs + 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	71.0 148.0	32.2 67.3	24.0Ω/M′ 78.7Ω/km	11.0Ω/M′ 36.1Ω/km	.482	12.24	100	78%	12.95	42.5	23.3	76.4
	88125	NEC: CMP CEC: CMP FT6	25	See Chart 5 (Tech Info Section)	500† 1000†	152.4 304.8	98.0 195.0	44.5 88.6	24.0Ω/M′ 78.7Ω/km	9.6Ω/M′ 31.5Ω/km	.581	14.76	100	78%	12.95	42.5	23.3	76.4

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools are one piece, but length may vary ±10% from length shown.

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Plenum-Rated

Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS	**88761**	NEC:	1	Black,	100	30.5	2.7	1.2	.006	.15	.014	.36	.119	3.02	35	115	67	220
		CMP		Red	U-500	U-152.4	7.5	3.4										
		CEC:			500	152.4	7.5	3.4										
		CMP FT6			U-1000	U-304.8	15.0	6.8										
					1000	304.8	12.0	5.5										
Z-Fold®																		
Plenum • FEP Insulation • Red Fluorocopolymer Jacket																		
300V RMS	**87761**	NEC:	1	Black,	500	152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220
		CMP		Red	1000	304.8	11.0	5.0										
		CEC:																
		CMP FT6																
Z-Fold®																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS	**82761**	NEC:	1	Black,	U-500	U-152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220
		CMP		Red	U-1000	U-304.8	14.0	6.4										
		CEC:			1000	304.8	11.0	5.0										
		CMP FT6																
Z-Fold®																		
18 AWG Stranded (19x30) Tinned Copper Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS	**88760**	NEC:	1	Black,	100	30.5	3.7	1.7	.007	.18	.014	.36	.150	3.81	51	167	97	318
		CMP		Red	U-500	U-152.4	12.5	5.7										
		CEC:			500	152.4	11.0	5.0										
		CMP FT6			U-1000	U-304.8	24.0	10.9										
					1000	304.8	22.0	10.0										
Z-Fold®																		
Plenum • FEP Insulation • Red Fluorocopolymer Jacket																		
300V RMS	**87760**	NEC:	1	Black,	U-500	U-152.4	12.5	5.7	.007	.18	.014	.36	.150	3.81	51	167	97	318
		CMP		Red	500	152.4	10.5	4.8										
		CEC:			1000	304.8	21.0	9.5										
		CMP FT6																
Z-Fold®																		
Plenum • FEP Insulation • Natural Flamarrest Jacket																		
300V RMS	**82760**	NEC:	1	Black,	U-500	U-152.4	12.0	5.5	.007	.18	.014	.36	.150	3.81	51	167	97	318
		CMP		Red	U-1000	U-304.8	22.0	10.0										
		CEC:			1000	304.8	21.0	9.5										
		CMP FT6																
Z-Fold®																		

TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

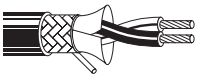
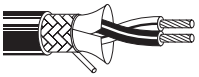
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Plenum-Rated

Overall Foil/Braid Shield

Low-Capacitance Computer and Computer P.O.S. Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
Low Cap 24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (90% Cov.) • Drain Wire																		
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 	**82841**	NEC: CMP CEC: CMP FT6	1	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	13.0 26.0	6.0 11.8	24.0Ω/M′ 78.7Ω/km	3.1Ω/M′ 10.2Ω/km	.204	5.18	120	76%	12	39.4	22	72.2
300V RMS 	**82842**	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	19.0 42.0	8.6 19.1	24.0Ω/M′ 78.7Ω/km	2.4Ω/M′ 7.9Ω/km	.273	6.93	120	76%	12	39.4	22	72.2
Plenum • Foam FEP Insulation • Red FEP Jacket																		
300V RMS 	**89841**	NEC: CMP CEC: CMP FT6	1	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	13.5 27.0	6.1 12.3	24.0Ω/M′ 78.7Ω/km	3.1Ω/M′ 10.2Ω/km	.202	5.13	120	76%	12	39.4	22	72.2
300V RMS 	**89842** new	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	25.5 49.0	11.6 22.2	24.0Ω/M′ 78.7Ω/km	3.1Ω/M′ 10.2Ω/km	.305	7.75	120	76%	12	39.4	22	72.2
22 AWG Solid TC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (90% Coverage) • 22 AWG TC Drain Wire																		
Plenum • Solid FEP Insulation • Black FEP Jacket																		
300V RMS 	**1269A**	NEC: MPP, CMP CEC: MPP, CMP FT6	2	Red & Blue, Black & Yellow	1000	304.8	48.0	21.8	16.5Ω/M′ 54.1Ω/km	2.1Ω/M′ 6.9Ω/km	.240	6.10	100	69.5%	15.5	50.9	27	88.6
22 AWG Solid TC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (55% Cov.) + Polyester Tape • 22 AWG Drain Wire																		
Plenum • Solid FEP Insulation • Black FEP Jacket																		
300V RMS 	**89855**	NEC: MPP, CMP CEC: MPP, CMP FT6	2	1 Pair: Red & Blue 1 Pair: Black & Yellow	500 1000	152.4 304.8	22.5 42.0	10.2 19.1	16.5Ω/M′ 54.1Ω/km	4.9Ω/M′ 16.1Ω/km	.272	6.91	100	69.5%	15.5	50.9	27	88.6
22 AWG Solid BC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (55% Coverage) • 22 AWG Solid TC Drain Wire																		
Plenum • Solid FEP Insulation • Black FEP Jacket																		
300V RMS 	**89696**	NEC: MPP, CMP CEC: MPP, CMP FT6	2	1 Pair: Blue & White with Blue Stripe 1 Pair: Orange & White with Orange Stripe	500 1000	152.4 304.8	25.0 46.0	11.4 20.9	16.5Ω/M′ 54.1Ω/km	4.2Ω/M′ 13.8Ω/km	.262	6.65	100	69.5%	15.5	50.9	27	88.6

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

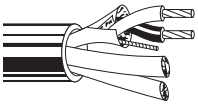
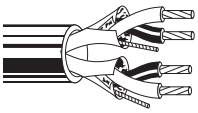
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Plenum-Rated

Individually Shielded Pairs

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422, and Digital Audio Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																		
300V RMS 	**89729**	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	17.0 31.0	7.7 14.1	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.261	6.63	100	76%	13.5	44	22.5	73.8
	89730	NEC: CMP CEC: CMP FT6	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	21.5 40.0	9.8 18.2	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.278	7.06	100	76%	13.5	44	22.5	73.8
	89728	NEC: CMP CEC: CMP FT6	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	26.5 50.0	12.0 22.7	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.307	7.80	100	76%	13.5	44	22.5	73.8
	89705	NEC: CMP CEC: CMP FT6	5	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	30.5 62.0	13.9 28.2	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.333	8.50	100	76%	13.5	44	22.5	73.8
	89731	NEC: CMP CEC: CMP FT6	6	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	35.0 71.0	15.9 32.3	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.361	9.17	100	76%	13.5	44	22.5	73.8
	89757	NEC: CMP CEC: CMP FT6	7	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	39.5 80.0	18.0 36.4	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.361	9.17	100	76%	13.5	44	22.5	73.8
	89732	NEC: CMP CEC: CMP FT6	9	See Chart 5 (Tech Info Section)	1000	304.8	108.0	49.2	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.433	10.90	100	76%	13.5	44	22.5	73.8
	89734	NEC: CMP CEC: CMP FT6	12	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	71.0 140.0	32.3 63.6	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.498	12.65	100	76%	13.5	44	22.5	73.8
	89758	NEC: CMP CEC: CMP FT6	18	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	100.5 204.0	45.7 92.7	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.616	15.65	100	76%	13.5	44	22.5	73.8
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 	**82729**	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	U-1000 1000	U-304.8 304.8	26.0 28.0	11.8 12.7	23.3Ω/M′ 76.4Ω/km	14.4Ω/M′ 47.2Ω/km	.255	6.48	100	76%	13.5	44	22.5	73.8

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

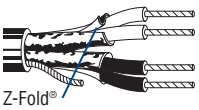
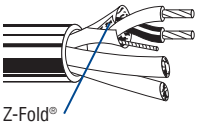
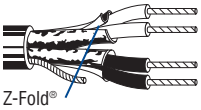
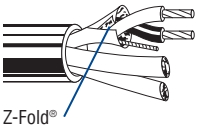
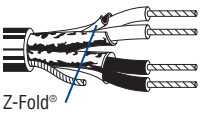
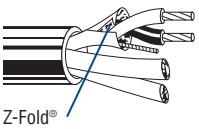
**Capacitance between one conductor and other conductors connected to shield.

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Plenum-Rated

Individually Shielded Pairs
Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire††																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS  Z-Fold®	**82723**	NEC: CMP CEC: CMP FT6	2	Red & Black, Green & White	U-500 U-1000 1000 U-2000	U-152.4 U-304.8 304.8 U-609.6	10.5 20.0 19.0 40.0	4.8 9.1 8.6 18.2	14.7Ω/M′ 48.2Ω/km	16.6Ω/M′ 54.5Ω/km	.153	3.89	36	62%	43	141	75	246
††82723 has 24 AWG drain wire Pairs cabled on common axis to reduce diameter.																		
300V RMS  Z-Fold®	**82777**	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	U-500 U-1000 1000	U-152.4 U-304.8 304.8	19.5 38.0 39.0	8.9 17.3 17.7	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.237	6.02	46	62%	35	115	76	249
	82778	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	1000	304.8	71.0	32.2	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.314	7.98	46	62%	35	115	76	249
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS  Z-Fold®	**88723**	NEC: CMP CEC: CMP FT6	2	Red & Black, Green & White	100 500 1000	30.5 152.4 304.8	3.4 11.0 19.0	1.5 5.0 8.6	14.7Ω/M′ 48.2Ω/km	16.6Ω/M′ 54.5Ω/km	.148	3.76	40	69%	35	115	67	220
††88723 has 24 AWG drain wire																		
300V RMS  Z-Fold®	**88777**	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.0 19.0 42.0	2.7 8.6 19.1	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.234	5.94	50	69%	31	102	67	220
	88778	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.0 38.5 75.0	3.2 17.5 34.1	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.309	7.85	50	69%	31	102	67	220
Pairs cabled on common axis to reduce diameter.																		
Plenum • FEP Insulation • Red Fluorocopolymer Jacket																		
300V RMS  Z-Fold®	**87723**	NEC: CMP CEC: CMP FT6	2	Red & Black, Green & White	500 1000	152.4 304.8	11.0 18.0	5.0 8.2	14.7Ω/M′ 48.2Ω/km	15.0Ω/M′ 49.2Ω/km	.148	3.76	40	69%	35	115	67	220
††87723 has 24 AWG drain wire.																		
300V RMS  Z-Fold®	**87777**	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	18.0 40.0	8.2 18.2	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.234	5.94	50	69%	31	102	67	220
	87778	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	37.5 73.0	17.0 33.2	14.7Ω/M′ 48.2Ω/km	11.3Ω/M′ 37.1Ω/km	.309	7.85	50	69%	31	102	67	220
Pairs cabled on common axis to reduce diameter.																		

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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6 Coaxial Cables

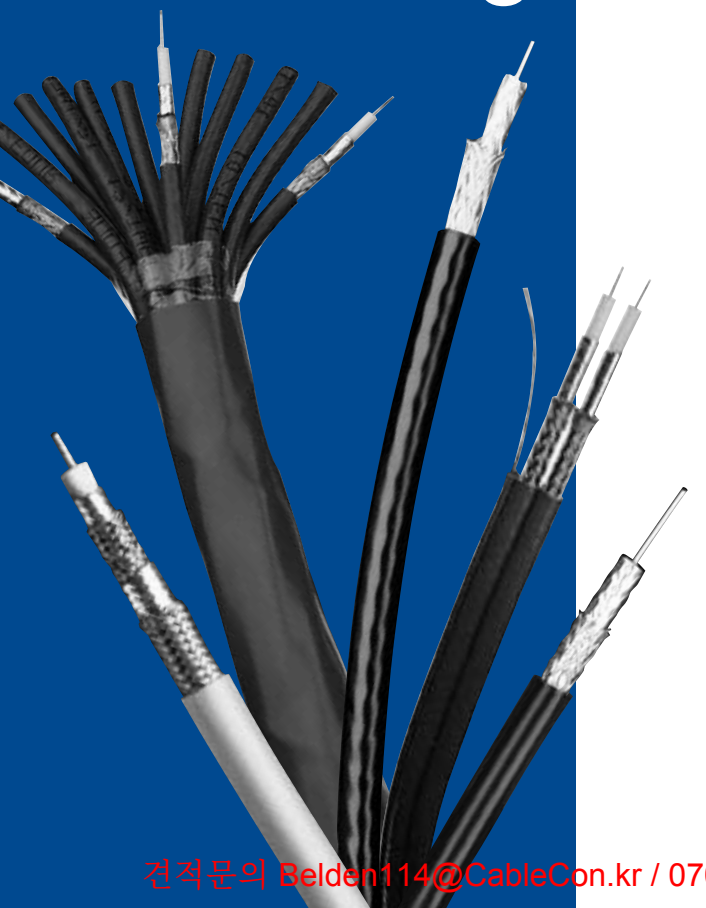


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Please refer to "Terms of Use of Master Catalog" on page 22.22

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Introduction

Compare Belden® Coaxial cables and the companies who produce them and you will discover the obvious: Belden has no equal. That's because Belden Coaxial cables are time-tested for performance. Performance that guarantees outstanding value. Belden guarantees this level of performance because every cable is tested with equipment that simulates every known environmental and electrical performance condition. As a result, Belden Coaxial cable can be counted on for positive, reliable and trouble-free operation.

Belden Coaxial cables are engineered in a wide selection of sizes and materials, with each offering the benefits needed for physical, electrical and cost-requirement applications. Cable choices include broadband, standard analog, precision video for analog and digital, bundled RGB, high-flex S-Video, video triax, conformable coax and more.

Most of our Coax cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a Coax cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Coax Cable Shielding

Belden's line of coaxial cable features a wide range of shielding configurations. Among the options are:

Duofoil®

Duofoil is a shield in which metallic foil is applied to both sides of a supporting polyester or polypropylene film.

Duobond®

Duobond is essentially the same construction as Duofoil (a laminated shielding tape consisting of aluminum foil/plastic film/aluminum foil), but with an extra layer of heat-sensitive adhesive bonding the foil shield to the dielectric core. This foil shield provides 100% coverage and insures maximum shield protection.

Duobond II (Foil/Braid)

Combines all the features of Duobond with an outer braid applied for greater protection against interference and to increase the overall tensile strength.

Duobond III (Tri-Shield)

Duobond III utilizes the Duobond II design (foil/braid) plus an additional surrounding layer of Duofoil. This extra layer of foil improves shield reliability and provides an additional interference barrier.

Duobond IV (Quad Shield)

Duobond IV adds a second layer of braid to the Tri-Shield design (foil/braid/foil/braid). This extra layer of braid shield provides improved strength and durability.

Duobond Plus®

Features the same foil/braid/foil construction as Duobond II but with the addition of a shorting fold in the outermost foil. This fold prevents a slot opening from being created in the shield, thereby preventing signal egress or ingress. This unique feature creates the effect of a solid metal conduit, which improves the high-frequency performance of the cable. (See the Technical Information section of this catalog for a more detailed explanation of "shorting folds.")

Coax Cable Packaging

As with most Belden cables, several Coax cable products are available in Belden's UnReel® cardboard dispenser. The UnReel is a unique packaging dispensing system developed by Belden to save time, cut costs and labor, and eliminate the need for dereeling equipment. Lightweight and more economical than conventional drums or reels, UnReel dispensers have pre-punched handles for easy, individual transport as well as rectangular boxes for easy pallet delivery and storage. UnReel cable pays out smoothly and evenly with no kinking, twisting, or backlashing. It also rolls out 60% faster than conventionally packaged cable.

Corresponding Literature

Technical Bulletins

TB-65: *Digital Studio Cable Guide*

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RG Coaxial and Triaxial Reference Guide

DS-3 and DS-4 Interconnect and Cross-Connect Cables
and Low Loss 50 Ohm Wireless RF Transmission Cables

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
DS-3 and DS-4 Interconnect and Cross-connect Cable												
728A Type	**9231**	6.58	Belden	1/.031″ BC (9.9)	PE (.198)	Inner None/98% SPC (187.0) Outer None/95% BC (1.1)	PVC-NC (.305)	.071	75	21.0	-40 to +60	1900
734A Type DS3-4	**734A1**	6.56	Belden	1/.032″ BC (10.0)	GIFHDPE (.148)	BF/85% TC (2.4)	PVC (.235)	.031	75	16.8	-40 to +75	300
734A Type DS3-4 Bundled 12-Coax	**734A12**	6.56	Belden	1/.032″ BC (10.0)	GIFHDPE (.148)	BF/85% TC (2.4)	PVC (1.026)	.484	75	16.8	-40 to +75	300
734A Type DS3-4 Plenum	**734A1P**	6.56	Belden	1/.032″ BC (10.0)	FFEP (.148)	BF/85% TC (2.4)	FLM (.215)	.032	75	17.3	0 to +75	300
734A Type DS3-4 Bundled 6-Coax	**734A6**	6.56	Belden	1/.032″ BC (10.0)	GIFHDPE (.148)	BF/85% TC (2.4)	PVC (.772)	.250	75	16.8	-45 to +75	300
734D Type DS3-4	**734D1**	6.57	Belden	1/.032″ SPC (10.0)	GIFHDPE (.148)	BF/85% TC (2.4)	PVC (.235)	.031	75	16.8	-40 to +75	300
734D Type DS3-4 Bundled 12-Coax	**734D12**	6.57	Belden	1/.032″ SPC (10.0)	GIFHDPE (.148)	BF/85% TC (2.4)	PVC (1.026)	.484	75	16.8	-40 to +75	300
734D Type DS3-4 Plenum	**734D1P**	6.57	Belden	1/.032″ SPC (10.0)	FFEP (.148)	BF/85% TC (2.4)	FLM (.215)	.032	75	17.3	0 to +75	300
734D Type DS3-4 1-Coax with Tracer	**734D1T**	6.57	Belden	1/.032″ SPC (10.0)	GIFHDPE (.148)	BF/85% TC (2.4)	PVC (.235 x .309)	.034	75	16.8	-40 to +75	300
734D Type DS3-4 Dual Coax	**734D2**	6.57	Belden	1/.032″ SPC (10.0)	GIFHDPE (.148)	BF/85% TC (2.4)	PVC (.235 x .485)	.061	75	16.8	-40 to +75	300
734D Type DS3-4 2-Coax with Tracer	**734D2T**	6.57	Belden	1/.032″ SPC (10.0)	GIFHDPE (.148)	BF/85% TC (2.4)	PVC (.235 x .574)	.068	75	16.8	-40 to +75	300
734D Type DS3-4 Bundled 6-Coax	**734D6**	6.57	Belden	1/.032″ SPC (10.0)	GIFHDPE (.148)	BF/85% TC (2.4)	PVC (.772)	.250	75	16.8	-40 to +75	300
735A Type DS3-4	**735A1**	6.55	Belden	1/.0159″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.129)	.011	75	17.7	-40 to +75	300
735A Type DS3-4 Bundled 12-Coax	**735A12**	6.55	Belden	1/.016″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.581)	.171	75	17.7	-40 to +75	300
735A Type DS3-4 Bundled 16-Coax	**735A16**	6.55	Belden	1/.016″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.636)	.226	75	17.7	-40 to +75	300
735A Type DS3-4 Plenum	**735A1P**	6.55	Belden	1/.016″ SPC (41.0)	FFEP (.077)	BF/93% TC (5.3)	FLM (.129)	.018	75	17.7	0 to +75	300
735A Type DS3-4 1-Coax with Tracer	**735A1T**	6.55	Belden	1/.016″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.129 x .203)	.013	75	17.7	-40 to +75	300
735A Type DS3-4 2-Coax with Tracer	**73502T**	6.55	Belden	1/.017″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.179 x .308)	.040	75	17.7	-40 to +75	300
735A Type DS3-4 Dual Coax	**735A2**	6.55	Belden	1/.016″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.129 x .258)	.022	75	17.7	-40 to +75	300
735A Type DS3-4 Bundled 24-Coax	**735A24**	6.55	Belden	1/.016″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.870)	.364	75	17.7	-40 to +75	300
735A Type DS3-4 Bundled 3-Coax	**735A3**	6.55	Belden	1/.016″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.309)	.045	75	17.7	-40 to +75	300
735A Type DS3-4 Bundled 6-Coax	**735A6**	6.55	Belden	1/.016″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.399)	.083	75	17.7	-40 to +75	300
735A Type DS3-4 Bundled 8-Coax	**735A8**	6.55	Belden	1/.016″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.447)	.111	75	17.7	-40 to +75	300
735A Type DS3-4 Bundled 9-Coax	**735A9**	6.55	Belden	1/.016″ SPC (41.0)	FHDPE (.077)	BF/93% TC (5.3)	PVC (.484)	.122	75	17.7	-40 to +75	300
Low Loss 50 Ohm Wireless RF Transmission Cables												
RF300	**7809A**	6.62	Belden	1/.072″ BC (2.1)	GIFHDPE (.190)	DB/95% TC (2.4)	PE (.300)	.046	50	23.0	-40 to +75	300
RF300 Riser	**7809R**	6.62	Belden	1/.072″ BC (2.1)	GIFHDPE (.190)	DB/95% TC (2.4)	PVC (.300)	.046	50	23.0	-40 to +75	300
RF300 Burial	**7809WB**	6.62	Belden	1/.072″ BC (2.1)	GIFHDPE (.190)	DB/95% TC (2.4)	PE (.300)	.046	50	23.0	-40 to +75	300
RG-174/U Type RF100A	**7805**	6.59	Belden	1/.018″ BC (3.2)	PE (.061)	BF/90% TC (9.1)	PVC (.110)	.009	50	31.2	-40 to +75	1,100
RG-174/U Type RF100LL	**7805R**	6.59	Belden	1/.020″ BC (27.3)	FHDPE (.060)	BF/93% TC (9.3)	PVC (.110)	.010	50	26.2	-40 to +75	300

*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

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RG Coaxial and Triaxial Reference Guide

Low Loss 50 Ohm Wireless RF Transmission Cables and Microwave Conformable® Coax

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
Low Loss 50 Ohm Wireless RF Transmission Cables *(continued)*												
RG-58/U Type RF195	**7806A**	6.60	Belden	1/.037″ BC (7.6)	GIFPE (.110)	DF/90% TC (4.2)	PE (.195)	.022	50	24.3	-40 to +75	300
RG-58/U Type RF195 Riser	**7806R**	6.60	Belden	1/.037″ BC (7.6)	GIFPE (.110)	DF/90% TC (4.2)	PVC (.195)	.026	50	24.3	-40 to +75	300
RG-58/U Type RF200	**7807A**	6.60	Belden	1/.044″ BC (3.3)	GIFPE (.116)	DF/95% TC (4.2)	PE (.195)	.026	50	23.5	-40 to +75	300
RG-58/U Type RF200 Riser	**7807R**	6.60	Belden	1/.044″ BC (3.3)	GIFPE (.116)	DF/95% TC (4.2)	PVC (.195)	.029	50	23.5	-40 to +75	300
RG-8/X Type RF240	**7808A**	6.61	Belden	1/.057″ BC (3.2)	GIFPE (.150)	DB/95% TC (3.5)	PE (.240)	.036	50	23.0	-40 to +75	300
RG-8/X Type RF240 Riser	**7808R**	6.61	Belden	1/.057″ BC (3.2)	GIFPE (.150)	DB/95% TC (3.5)	PVC (.240)	.040	50	23.0	-40 to +75	300
RG-8/X Type RF240 Burial	**7808WB**	6.61	Belden	1/.057″ BC (3.2)	GIFPE (.150)	DB/95% TC (3.5)	PE (.240)	.036	50	23.0	-40 to +75	300
RF300	**7809A**	6.62	Belden	1/.072″ BC (2.0)	GIFPE (.190)	DB/95% TC (2.7)	PE (.300)	.046	50	23.0	-40 to +75	300
RF300R Riser	**7809R**	6.62	Belden	1/.072″ BC (2.0)	GIFPE (.190)	DB/95% TC (2.7)	PVC (.300)	.053	50	23.0	-40 to +75	300
RF300WB Burial	**7809WB**	6.62	Belden	1/.072″ BC (2.0)	GIFPE (.190)	DB/95% TC (2.7)	PE (.300)	.046	50	23.0	-40 to +75	300
RG-8/U Type RF400	**7810A**	6.63	Belden	1/.108″ BCCA (1.3)	GIFPE (.285)	DB/95% TC (1.8)	PE (.405)	.077	50	23.0	-40 to +75	300
RG-8/U Type RF400 Riser	**7810R**	6.63	Belden	1/.108″ BCCA (1.3)	GIFPE (.285)	DB/95% TC (1.8)	PVC (.405)	.087	50	23.0	-40 to +75	300
RG-8/U Type RF400 Burial	**7810WB**	6.63	Belden	1/.108″ BCCA (1.3)	GIFPE (.285)	DB/95% TC (1.8)	PE (.405)	.077	50	23.0	-40 to +75	300
RF500 Aerial	**7976A**	6.64	Belden	1/.142″ BCCA (.8)	FHDPE (.370)	DBII/90% TC (1.6)	PE (.500)	.120	50	25.1	-40 to +80	300
RF500 Aerial	**7976R**	6.64	Belden	1/.142″ BCCA (.8)	FHDPE (.370)	DBII/90% TC (1.6)	PVC (.500)	.120	50	25.1	-40 to +80	300
RF500 Aerial	**7976WB**	6.64	Belden	1/.142″ BCCA (.8)	FHDPE (.370)	DBII/90% TC (1.6)	PE (.500)	.120	50	25.1	-40 to +80	300
RF600 Aerial	**7977A**	6.65	Belden	1/.176″ BCCA (.5)	FHDPE (.455)	DBII/85% TC (1.8)	PE (.590)	.163	50	24.6	-40 to +80	300
RF600 Aerial	**7977R**	6.65	Belden	1/.176″ BCCA (.5)	FHDPE (.455)	DBII/85% TC (1.8)	PVC (.590)	.163	50	24.6	-40 to +80	300
RF600 Aerial	**7977WB**	6.65	Belden	1/.176″ BCCA (.5)	FHDPE (.455)	DBII/85% TC (1.8)	PE (.590)	.163	50	24.6	-40 to +80	300
Microwave Conformable Coax												
RG-401/U Type Conformable	**1675A**	6.73	Belden	1/.065″ SPCCS (2.5)	TFE (.210)	CT (8.0)	None (.246)	.081	50	29.6	-70 to +200	3,000
RG-402/U Type Conformable	**1673A**	6.73	Belden	1/.036″ SPCCS (20.5)	TFE (.116)	CT (4.5)	None (.138)	.020	50	29.5	-70 to +200	1,900
RG-402/U Type Conformable	**1673B**	6.73	Belden	1/.036″ SPC (7.9)	TFE (.116)	CT (4.5)	None (.138)	.020	50	29.5	-70 to +200	1,900
RG-402/U Type Conformable Jacketed	**1673J**	6.73	Belden	1/.036″ SPCCS (20.5)	TFE (.116)	CT (4.5)	PVC (.178)	.020	50	29.5	-40 to +105	1,900
RG-405/U Type Conformable	**1671A**	6.72	Belden	1/.020″ SPCCS (64.2)	TFE (.062)	CT (10.2)	None (.085)	.012	50	29.5	-70 to +200	1,500
RG-405/U Type Conformable	**1671B**	6.72	Belden	1/.020″ SPC (25.7)	TFE (.062)	CT (10.2)	None (.085)	.012	50	29.5	-70 to +200	1,500
RG-405/U Type Conformable Jacketed	**1671J**	6.72	Belden	1/.020″ SPCCS (64.2)	TFE (.062)	CT (10.2)	PVC (.127)	.016	50	29.5	-40 to +105	1,500
M17/151 Type Conformable	**1674A**	6.72	Belden	1/.011″ SPCCS (205.0)	TFE (.034)	CT (8.0)	None (.047)	.004	50	29.5	-70 to +200	1,000
M17/151 Type Conformable	**1674B**	6.72	Belden	1/.011″ SPCCS (81.2)	TFE (.034)	CT (8.0)	None (.047)	.004	50	29.5	-70 to +200	1,000
75 Ohm Conformable	**1672A**	6.74	Belden	1/.011″ SCCCS (205.0)	TFE (.062)	CT (10.0)	None (.087)	.012	75	19.5	-70 to +200	1500
75 Ohm Conformable	**1672B**	6.74	Belden	1/.011″ SPC (11.0)	TFE (.062)	CT (10.0)	None (.087)	.012	75	19.5	-70 to +200	1500
75 Ohm Conformable Jacketed	**1672J**	6.74	Belden	1/.011″ SCCCS (205.0)	TFE (.062)	CT (10.0)	PVC (.127)	.016	75	19.5	-40 to +105	1500

*Inner conductors are entered as: number of strands/strand diameter (in inches).

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RG Coaxial and Triaxial Reference Guide

Microwave Conformable® Coax and RG-6 Type

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
RG-6 Type												
RG-6/U Type Plenum	**1152A**	6.25	Belden, IBM P/N1501919	1/.040″ BCCS (28.0)	FFEP (.170)	DF/60% TC DF/40% TC (1.8)	FEP (.273)	.048	75	16.5	-70 to +200	300
RG-6/U Type	**1189A**	6.24	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIV, 60% AL 40% AL (4.8)	PVC (.298)	.032	75	16.2	-40 to +80	300
RG-6/U Type Plenum	**1189AP**	6.24	Belden	1/.040″ BCCS (28.0)	FFEP (.170)	DBIV/60% AL 40% AL (4.8)	FLM (.248)	.039	75	16.3	-20 to +75	300
RG-6/U Type Burial	**1190A**	6.25	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIV/60% AL 40% AL (4.8)	PE (.298)	.029	75	16.2	-55 to +80	300
RG-6/U Type Messengered	**1191AM**	6.24	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIV/60% AL 40% AL (4.8)	PVC (.298 x .433)	.040	75	16.2	-40 to +80	300
RG-6/U Type Messengered	**1258AM**	6.19	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270 x .410)	.042	75	16.2	-40 to +80	300
RG-6/U Type Messengered	**1260AM**	6.23	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DB+/77% AL (5.6)	PVC (.275 x .416)	.042	75	16.2	-40 to +80	300
RG-6/U Type	**1322R**	6.24	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIV/60% AL 40% AL (4.8)	PVC (.298)	.035	75	16.2	-40 to +80	300
RG-6/U Type Composite (w/PowerPair)	**1360SB**	6.39	Belden	1/.040″ BC (6.4)	FFEP (.180)	95% BC (3.1)	LSZH (.275 x .514)	.076	75	16.3	-30 to +75	300
RG-6/U Type	**1530A**	6.20	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/90% AL (5.0)	PVC (.270)	.029	75	16.2	-40 to +80	300
RG-6/U Type Plenum	**1530AP**	6.20	Belden	1/.040″ BCCS (28.0)	FFEP (.170)	DBII/90% AL (5.0)	FLM (.235)	.027	75	16.3	-20 to +75	300
RG-6/U Type Messengered	**1531AM**	6.20	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/90% AL (5.0)	PVC (.270 x .410)	.044	75	16.2	-40 to +80	300
RG-6/U Type Burial	**1532A**	6.20	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/90% AL (5.0)	PE (.270)	.024	75	16.2	-55 to +80	300
RG-6/U Type	**1545A**	6.19	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270)	.030	75	16.2	-40 to +80	300
RG-6/U Type	**1546A**	6.21	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIII/60% AL (6.5)	PVC (.278)	.029	75	16.2	-40 to +80	300
RG-6/U Type	**1613A**	6.22	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIII/77% AL (5.6)	PVC (.278)	.030	75	16.2	-40 to +80	300
RG-6/U Type Burial	**1614A**	6.22	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIII/77% AL (5.6)	PE (.275)	.024	75	16.2	-55 to +80	300
RG-6/U Type Messengered	**1615AM**	6.22	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIII/77% AL (5.6)	PVC (.275 x .416)	.043	75	16.2	-40 to +80	300
RG-6/U Type Messengered	**1616AM**	6.22	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIII/77% AL (5.6)	PVC (.275 x .416)	.045	75	16.2	-40 to +80	300
RG-6/U Type Digital Video	**1694A**	6.44	Belden	1/.040″ BC (6.4)	GIFHDPE (.180)	DF/95% TC (2.8)	PVC (.275)	.040	75	16.2	-20 to +75	300
RG-6/U Type Digital Video	**1694SB**	6.44	Belden	1/.040″ BC (6.4)	FFEP (.170)	DF/95% TC (2.8)	FLM (.234)	.045	75	16.2	-30 to +75	300
RG-6/U Type Plenum	**1695A**	6.44	Belden	1/.040″ BC (6.4)	FFEP (.170)	DF/95% TC (2.8)	FLM (.234)	.033	75	16.2	-40 to +80	300
RG-6/U Type	**1829A**	6.31	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270)	.030	75	16.2	-40 to +80	300
RG-6/U Type	**1829AC**	6.31	Belden	1/.040″ BCAC (6.4)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270)	.030	75	16.2	-30 to +75	300
RG-6/U Type Burial	**1829B**	6.31	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PE (.270)	.024	75	16.2	-55 to +80	300
RG-6/U Type Burial	**1829BC**	6.31	Belden	1/.040″ BCAC (6.4)	GIFPE (.180)	DBII/60% AL (9.0)	PE (.270)	.024	75	16.2	-55 to +80	300
RG-6/U Type Plenum	**1829P**	6.31	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	FLM (.235)	.027	75	16.3	-20 to +75	300
RG-6/U Type	**1829R**	6.31	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270)	.029	75	16.2	-40 to +80	300
RG-6/U Type Burial	**1837A**	6.21	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIII/60% AL (6.5)	PE (.275)	.024	75	16.2	-55 to +80	300

*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

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RG Coaxial and Triaxial Reference Guide

RG-6 Type

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
RG-6 Type *(continued)*												
RG-6/U Type Static Ground	**1839A**	6.32	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270 x .405)	.040	75	16.2	-40 to +80	300
RG-6/U Type Static Ground	**1839AC**	6.32	Belden	1/.040″ BCAC (6.4)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270 x .405)	.040	75	16.2	-40 to +80	300
RG-6/U Type Static Ground	**1840A**	6.32	Belden	2/.040″ BCAC (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.273 x .703)	.069	75	16.2	-40 to +80	300
RG-6/U Type Static Ground	**1840AC**	6.32	Belden	2/.040″ BC (6.4)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.273 x .703)	.069	75	16.2	-40 to +80	300
RG-6/U Type	**1841A**	6.32	Belden	2/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.273 x .595)	.058	75	16.2	-40 to +80	300
RG-6/U Type	**1841AC**	6.32	Belden	2/.040″ BCAC (6.4)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.273 x .595)	.058	75	16.2	-40 to +80	300
RG-6/U Type Burial	**1843A**	6.33	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PE (.273 x .750)	.052	75	16.2	-55 to +80	300
RG-6/U Type	**3131A**	6.84	Belden	1/.040″ BCCS (28.0)	FPE (.180)	DBIV/67% AL 46% AL (3.6)	PVC (.300)	.033	75	16.2	-30 to +75	3000
RG-6/U Type	**3132A**	6.84	Belden	1/.040″ BCCS (28.0)	FFPE (.170)	DBIV/67% AL 46% AL (7.2)	PVDF (.274)	.043	75	16.3	-20 to +150	300
RG-6/U Type	**5339G5**	6.21	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	BB/50% AL (15.0)	PVC (.253)	.024	75	16.2	-40 to +80	300
RG-6/U Type	**7915A**	6.33	Belden	1/.040″ BC (6.4)	GIFPE (.180)	DB+/77% AL (4.6)	PVC (.275)	.029	75	16.2	-40 to +80	300
RG-6/U Type	**7916A**	6.33	Belden	1/.040″ BC (6.4)	GIFPE (.180)	DBIV/60% AL 40% AL (4.8)	PVC (.298)	.032	75	16.2	-40 to +80	300
RG-6/U Type	**8215**	6.38	Belden	1/.028″ BCCS (32.0)	PE (.185)	None/96% BC None/95% BC (1.1)	PE (.332)	.069	75	20.5	-55 to +80	2,700
RG-6/U Type	**8238**	6.39	JAN-C-17A	7/.048″ TC (6.1)	FRSFPE (.285)	None/97% BC (1.2)	PVC (.405)	.117	75	20.5	-40 to +80	300
RG-6/U Type	**8261**	6.39	MIL-C-17D	7/.048″ TC (6.1)	PE (.285)	None/97% BC (1.2)	PVC (.405)	.104	75	20.5	-40 to +60	3,700
RG-6/U Type	**9058**	6.23	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DB+/77% AL (5.6)	PVC (.275)	.029	75	16.2	-40 to +80	300
RG-6/U Type Messengered	**9058M**	6.23	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DB+/77% AL (5.6)	PVC (.275 x .416)	.043	75	16.2	-40 to +80	350
RG-6/U Type Burial	**9062**	6.23	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DB+/77% AL (5.6)	PVC (.275)	.023	75	16.2	-55 to +80	300
RG-6/U Type Burial	**9066**	6.19	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PE (.270)	.026	75	16.2	-55 to +80	300
RG-6/U Type	**9077**	6.19	Belden	2/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270 x .590)	.057	75	16.2	-40 to +80	300
RG-6/U Type	**9116**	6.19	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270)	.030	75	16.2	-40 to +80	300
RG-6/U Type Plenum	**9116P**	6.19	Belden	1/.040″ BCCS (28.0)	FFEP (.170)	DBII/60% AL (9.0)	FLM (.235)	.025	75	16.3	-20 to +75	300
RG-6/U Type Riser	**9116R**	6.19	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270)	.030	75	16.2	-40 to +80	300
RG-6/U Type	**9116SB**	6.19	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	LSZH (.274)	.031	75	16.2	-30 to +75	300
RG-6/U Type Messengered	**9117M**	6.19	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBII/60% AL (9.0)	PVC (.270 x .410)	.042	75	16.2	-40 to +80	300
RG-6/U Type	**9118**	6.21	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIII/60% AL (6.8)	PVC (.275)	.026	75	16.2	-40 to +80	300
RG-6/U Type Messengered	**9119M**	6.21	Belden	1/.040″ BCCS (28.0)	GIFPE (.180)	DBIII/60% AL (6.5)	PVC (.275 x .416)	.042	75	16.2	-40 to +80	300
RG-6/U Type	**9248**	6.38	Belden	1/.040″ BC (6.4)	GIFHDPE (.180)	DF/65% TC (5.6)	PVC (.270)	.030	75	16.2	-40 to +80	300
RG-6/U Type	**9290**	6.38	Belden	1/.037″ BC (7.5)	FPE (.180)	None/95% BC None/95% BC (2.0)	PVC (.288)	.054	75	17.3	-40 to +80	300

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RG Coaxial and Triaxial Reference Guide

RG-6, RG-8 and RG-11 Types

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
RG-6 Type *(continued)*												
RG-6/U Type Plenum	**82120**	6.25	Belden	1/.040″ BCCS (28.0)	FFEP (.170)	DF/95% TC (1.7)	FLM (.234)	.044	75	16.5	-20 to +75	300
RG-6/U Type Plenum	**82248**	6.38	Belden	1/.040″ BC (6.4)	FFEP (.170)	DF/65% TC (5.1)	FLM (.222)	.035	75	16.5	-20 to +75	300
RG-6/U Type Plenum	**87120**	6.25	Belden	1/.040″ BCCS (28.0)	FFEP (.170)	DF/95% TC (1.7)	PVDF (.234)	.043	75	16.5	-20 to +150	300
RG-6/U Type Plenum	**89120**	6.25	Belden	1/.040″ BCCS (28.0)	FFEP (.170)	DF/95% TC (1.7)	FEP (.234)	.044	75	16.5	-70 to +200	300
RG-6/U Type Plenum	**89248**	6.38	Belden	1/.040″ BC (6.4)	FFEP (.170)	DF/65% TC (5.1)	FEP (.222)	.035	75	16.5	-70 to +200	300
RG-8 Type												
RG-8/U Type	**7733A**	6.70	Belden	1/.108″ BC (0.9)	FFEP (.280)	DF/90% TC (1.8)	PVDF (.355)	.115	50	24.2	-20 to +150	300
RG-8/X Type RF240	**7808A**	6.61	Belden	1/.057″ BC (3.2)	GIFHDPE (.150)	DB/95% TC (2.8)	PE (.240)	.036	50	23.0	-40 to +75	300
RG-8/X Type RF240 Riser	**7808R**	6.61	Belden	1/.057″ BC (3.2)	GIFHDPE (.150)	DB/95% TC (2.8)	PVC (.240)	.040	50	23.0	-40 to +75	300
RG-8/X Type RF240 Burial	**7808WB**	6.61	Belden	1/.057″ BC (3.2)	GIFHDPE (.150)	DB/95% TC (2.8)	PE (.240)	.036	50	23.0	-40 to +75	300
RG-8/U Type RF400	**7810A**	6.63	Belden	1/.108″ BCCA (1.34)	GIFHDPE (.285)	DB/95% TC (2.0)	PE (.403)	.077	50	23.0	-40 to +75	300
RG-8/U Type RF400 Riser	**7810R**	6.63	Belden	1/.108″ BCCA (1.34)	GIFHDPE (.285)	DB/95% TC (2.0)	PVC (.403)	.087	50	23.0	-40 to +75	300
RG-8/U Type RF400 Burial	**7810WB**	6.63	Belden	1/.108″ BCCA (1.34)	GIFHDPE (.285)	DB/95% TC (2.0)	PE (.403)	.077	50	23.0	-40 to +75	300
RG-8/U Type	**8214**	6.69	Belden	7/.108″ BC (1.2)	FPE (.285)	None/97% BC (1.1)	PVC (.403)	.106	50	26.0	-40 to +80	300
RG-8/U Type	**8237**	6.69	JAN-C-17A	7/.085″ BC (1.9)	PE (.285)	None/97% BC (1.2)	PVC (.405)	.104	52	28.5	-40 to +75	3,700
RG-8/U Type	**9251**	6.69	MIL-C-17D	7/.085″ BC (1.9)	PE (.285)	None/97% BC (1.2)	PVC-NC (.405)	.099	52	28.5	-40 to +80	3,700
RG-8/X Type	**9258**	6.69	Belden	19/.058″ BC (4.3)	GIFPE (.155)	None/95% BC (3.3)	PVC (.242)	.035	50	24.8	-30 to +80	300
RG-8/U Type Thick Ethernet	**9880**	6.83	Belden, DEC PN17-00451-00	1/.086″ BC (1.4)	FPE (.243)	DBIV/94% TC 90% TC (1.5)	PVC (.405)	.113	50	26.0	-30 to +60	300
RG-8/U Type Triaxial	**9888**	6.90	Belden	7/.108″ BC (1.2)	FPE (.285)	Inner None/96% BC (1.2) Outer None/96% BC (2.1)	Inner PE (.370) Outer PE (.480)	.130	50	26.0	-55 to +80	300
RG-8/U Type	**9913**	6.70	Belden	1/.108″ BC (0.9)	SSPE (.286)	DBII/90% TC (1.8)	PVC (.405)	.097	50	24.6	-40 to +80	300
RG-8/U Type	**9913F7**	6.70	Belden	7/.108″ BC (1.1)	GIFHDPE (.285)	DB/95% TC (1.8)	BELFX (.405)	.094	52	22.5	-40 to +80	300
RG-8/U Type	**9914**	6.70	Belden	1/.103″ BC (1.8)	GIFHDPE (.285)	DBII/95% TC (1.1)	PVC (.403)	.108	50	24.8	-40 to +80	300
RG-8/U Type Thick Ethernet Plenum	**89880**	6.83	Belden, DEC PN17-00324-00	1/.086″ BC (1.4)	FFEP (.245)	DBIV/90% TC 90% TC (1.5)	PVDF (.375)	.137	50	26.0	-25 to +150	300
RG-8/U Type Plenum	**89913**	6.70	Belden	1/.108″ BC (0.9)	SSFEP (.295)	DBII/90% TC (1.8)	PVDF (.364)	.115	50	25.0	-20 to +150	300
RG-11 Type												
RG-11/U Type Plenum	**1153A**	6.28	Belden, IBM P/N1501908	1/.064″ BCCS (11.0)	FFEP (.280)	DF/60% TC DF/40% TC (1.8)	FEP (.387)	.092	75	16.2	-70 to +200	300
RG-11/U Type	**1523A**	6.26	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBII/60% AL (4.1)	PVC (.400)	.054	75	16.2	-40 to +80	300
RG-11/U Type	**1523AN**	6.26	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBII/60% AL (4.1)	PVC (.400)	.054	75	16.2	-40 to +80	300
RG-11/U Type Plenum	**1523AP**	6.26	Belden	1/.064″ BCCS (11.0)	FFEP (.274)	DBII/60% AL (4.1)	PVDF (.348)	.057	75	16.3	-20 to +150	300

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RG Coaxial and Triaxial Reference Guide

RG/11U Type

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
RG-11/U Type *(continued)*												
RG-11/U Type Riser	**1523R**	6.26	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBII/60% AL (4.1)	PVC (.400)	.054	75	16.2	-30 to +80	300
RG-11/U Type Messengered	**1524AM**	6.26	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBII/60% AL (4.1)	PVC (.400 x .580)	.070	75	16.2	-40 to +80	300
RG-11/U Type Burial	**1525A**	6.26	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBII/60% AL (4.1)	PE (.400)	.046	75	16.2	-50 to +80	300
RG-11/U Type	**1617A**	6.28	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBIV/60% AL 40% AL (3.0)	PVC (.407)	.059	75	16.2	-40 to +80	300
RG-11/U Type	**1618A**	6.28	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBIV/60% AL 40% AL (3.0)	PE (.407)	.053	75	16.2	-55 to +80	300
RG-11/U Type Messengered	**1619AM**	6.28	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBIV/60% AL 40% AL (3.0)	PVC (.407 x .560)	.075	75	16.2	-40 to +80	300
RG-11/U Type Messengered	**1620AM**	6.28	Belden	1/.064″ CCS (11.0)	GIFPE (.280)	DBIV/60% AL 40% AL (3.0)	PVC (.407 x .560)	.078	75	16.2	-40 to +80	300
RG-11/U Type Triaxial High-Flex Version	**1858A**	6.53	Belden	19/.064″ BC (3.1)	GIFHDPE (.312)	Inner None/95% BC (1.8) Outer None/95% BC (1.4)	Inner PE (.405) Outer BELFX (.520)	.147	75	17.3	-35 to +75	300
RG-11/U Type Triaxial Plenum	**1859A**	6.53	Belden	19/.064″ BC (3.1)	FFEP (.285)	Inner None/95% (1.4) Outer None/87% (1.4)	Inner PVDF (.350) Outer PVDF (.406)	.120	75	16.5	-20 to +125	300
RG-11/U Type	**3094A**	6.84	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBIV/67% AL 46% AL (1.5)	PVC (.407)	.059	75	16.2	-40 to +80	300
RG-11/U Type	**3095A**	6.85	Belden	1/.064″ BCCS (11.0)	FFEP (.280)	DBIV/67% AL 46% AL (3.9)	PVDF (.387)	.068	75	16.5	-20 to +150	300
RG-11/U Type	**7731A**	6.44	Belden	1/.064″ BC (2.5)	GIFHDPE (.280)	DF/95% TC (1.5)	PVC (.400)	.100	75	16.0	-30 to +75	300
RG-11/U Type Plenum	**7732A**	6.44	Belden	1/.064″ BC (2.5)	FFEP (.274)	DF/95% TC (1.6)	PVDF (.348)	.075	75	16.3	-20 to +150	300
RG-11/U Type Triax Flooded	**7803A**	6.54	Belden	1/.064″ BC (2.5)	GIFHDPE (.285)	Inner None/95% BC (1.6) Outer None/95% BC (1.4)	Inner PE (.365) Outer PE (.475)	.112	75	16.1	-55 to +80	300
RG-11/U Type Aerial	**7983A**	6.27	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBIII+/77% AL (4.0)	PVC (.400 x .580)	.084	75	16.2	-40 to +80	300
RG-11/U Type Burial	**7984A**	6.27	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DBIII+/77% AL (4.0)	PE (.400)	.052	75	16.2	-55 to +80	300
RG-11/U Type	**8213**	6.39	Belden	1/.064″ BC (2.6)	GIFHDPE (.285)	None/97% BC (1.1)	PE (.405)	.087	75	16.1	-55 to +80	300
RG-11/U Type Triaxial	**8233**	6.54	Belden	1/.064″ BC (2.5)	GIFHDPE (.285)	Inner None/95% BC (1.6) Outer None/80% BC (1.4)	Inner PE (.365) Outer PE (.475)	.112	75	16.1	-55 to +80	300
RG-11/U Type Triaxial	**8233A**	6.54	Belden	1/.064″ BC (2.5)	GIFHDPE (.285)	Inner None/95% BC (1.6) Outer None/80% BC (1.4)	Inner PVC (.365) Outer PVC (.475)	.132	75	16.1	-30 to +75	300

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RG Coaxial and Triaxial Reference Guide

RG/11U and RG-58 Types

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
RG-11/U Type *(continued)*												
RG-11/U Type	**9011**	6.26	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DF/40% AL (5.3)	PVC (.400)	.060	75	16.2	-40 to +80	300
RG-11/U Type	**9064**	6.27	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DB+/77% AL (3.8)	PVC (.400)	.062	75	16.2	-40 to +80	300
RG-11/U Type Messengered	**9065M**	6.27	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DB+/77% AL (3.8)	PVC (.400 x .580)	.080	75	16.2	-40 to +80	300
RG-11/U Type Triaxial	**9192**	6.53	Belden	19/.064″ BC (3.3)	GIFHDPE (.312)	Inner None/90% BC (1.6) Outer None/82% BC (1.6)	Inner PE (.390) Outer PVC (.520)	.134	75	17.3	-40 to +75	300
RG-11/QPL M17/6-RG11	**9212**	6.79	MIL-C-17G	7/.048″ TC (6.1)	PE (.285)	None/97% BC (1.2)	PVC-NC (.405)	.090	75	20.5	-40 to +85	3,700
RG-11/U Type Triaxial	**9232**	6.53	Belden	19/.064″ BC (3.0)	GIFHDPE (.312)	Inner None/90% BC (1.6) Outer None/82% BC (1.7)	Inner PE (.390) Outer H (.520)	.140	75	17.3	-20 to +75	300
RG-11/U Type	**9292**	6.39	Belden	1/.064″ BC (2.5)	GIFHDPE (.280)	DF/61% TC (3.0)	PVC (.405)	.081	75	16.1	-40 to +80	300
RG-11/U Type Burial	**9764**	6.27	Belden	1/.064″ BCCS (11.0)	GIFPE (.280)	DB+/77% AL (3.8)	PE (.400)	.056	75	16.2	-55 to +80	300
RG-11/U Type Plenum	**89292**	6.39	Belden	1/.064″ BC (2.5)	FFEP (.274)	DF/63% TC (3.0)	FEP (.346)	.077	75	16.1	-70 to +200	300
RG-58 Type												
RG-58/U Type RF195	**7806A**	6.60	Belden	1/.037″ BC (7.6)	GIFHDPE (.110)	DF/90% TC (4.2)	PE (.195)	.022	50	24.3	-40 to +75	300
RG-58/U Type RF195 Riser	**7806R**	6.60	Belden	1/.037″ BC (7.6)	GIFHDPE (.110)	DF/90% TC (4.2)	PVC (.195)	.026	50	24.3	-40 to +75	300
RG-58/U Type RF200	**7807A**	6.60	Belden	1/.044″ BC (3.3)	GIFHDPE (.116)	DF/95% TC (4.2)	PE (.195)	.026	50	23.5	-40 to +75	300
RG-58/U Type RF200 Riser	**7807R**	6.60	Belden	1/.044″ BC (3.3)	GIFHDPE (.116)	DF/95% TC (4.2)	PVC (.195)	.029	50	23.5	-40 to +75	300
RG-58A/U Type	**8219**	6.68	Belden	19/.037″ TC (8.8)	FPE (.114)	None/96% TC (4.1)	PVC (.194)	.025	53.5	26.5	-40 to +80	300
RG-58A/U	**8240**	6.68	JAN-C-17A	1/.033″ BC (10.0)	PE (.116)	None/95% TC (4.1)	PVC (.193)	.025	51.5	28.5	-40 to +75	1,400
RG-58A/U Type	**8259**	6.68	JAN-C-17A	19/.035″ TC (10.8)	PE (.116)	None/95% TC (4.1)	PVC (.192)	.024	50	30.8	-40 to +75	1,400
RG-58C/U QPL M17/155-00001	**8262**	6.77	MIL-C-17G	19/.035″ TC (10.8)	PE (.115)	None/95% TC (4.1)	PVC-NC (.195)	.024	50	30.8	-40 to +85	1,400
RG-58/U Type	**9201**	6.67	Belden	1/.033″ BC (10.0)	PE (.116)	None/78% BC (5.5)	PVC (.193)	.022	51.5	28.5	-40 to +80	1,400
RG-58/QPL M17/28-RG-58	**9203**	6.77	MIL-C-17G	19/.035″ TC (10.8)	PE (.116)	None/95% TC (4.1)	PVC-NC (.195)	.025	50	30.8	-40 to +85	1,400
RG-58A/U Type Triaxial	**9222**	6.90	Belden	7/.037″ TC (9.5)	PE (.114)	Inner None/96% TC (4.7) Outer None/85% TC (4.3)	Inner PE (.175) Outer PVC (.240)	.037	50	30.8	-40 to +75	1,400
RG-58/U Type	**9223**	6.82	Belden	7/.030″ TC (10.8)	PE (.112)	DBII/95% TC (4.1)	PVC (.195)	.024	50	37.0	-40 to +80	1,900
RG-58/U Type	**9310**	6.67	Belden	1/.033″ BC (9.4)	PE (.114)	DBII/55% TC (8.0)	PVC (.193)	.020	50	30.8	-40 to +60	1,400
RG-58A/U Type	**9311**	6.68	Belden	19/.037″ TC (8.8)	FPE (.114)	DBII/55% TC (17.0)	PVC (.193)	.018	52	26.0	-40 to +80	300
RG-58A/U Type Thin Ethernets	**9907**	6.83	DEC P/N 17-01248-00	19/.037″ TC (8.8)	FPE (.102)	DBII/93% TC (5.8)	PVC (.185)	.022	50	25.4	-40 to +80	300

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RG Coaxial and Triaxial Reference Guide

RG-58 and RG-59/U Types

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
RG-58 Type *(continued)*												
RG-58A/U Type Plenum	**82240**	6.68	Belden	1/.032″ BC (10.2)	FEP (.107)	None/95% TC (6.7)	FLM (.159)	.030	53.5	26.4	0 to +75	1,400
RG-58A/U Type Thin Ethernets Plenum	**82907**	6.83	Belden	19/.0375″ TC (8.8)	FFEP (.095)	DBII/93% TC (5.8)	FLM (.160)	.023	50	25.4	0 to +75	300
RG-58A/U Type Plenum	**88240**	6.68	Belden	1/.032″ BC (10.2)	FEP (.107)	None/95% TC (6.7)	FEP (.159)	.021	53.5	26.4	-70 to +200	300
RG-58A/U Type Thin Ethernet Plenum	**89907**	6.83	DEC P/N 17-01246-00	19/.0375″ TC (8.8)	FFEP (.095)	DBII/93% TC (5.8)	PVDF (.160)	.025	50	25.4	-20 to +150	300
RG-59/U Type												
RG-59/U Type Plenum	**1151A**	6.18	Belden, IBM P/N 1501917	1/.032″ BCCS (26.0)	FFEP (.140)	DF/52% TC DF/34% TC (2.3)	FEP (.236)	.035	75	16.5	-70 to +200	300
RG-59/U Type	**1186A**	6.17	Belden	1/.032″ CCS (44.5)	GIFHDPE (.144)	DBIV/67% AL 40% AL (7.0)	PVC (.265)	.025	75	16.2	-40 to +80	300
RG-59/U Type	**1426A**	6.37	Belden	1/.032″ BC (10.0)	GIFHDPE (.145)	None/95% BC (2.6)	PVC (.242)	.033	75	16.3	-30 to +75	300
RG-59/U Type	**1505A**	6.29	Belden	1/.032″ BC (10.0)	GIFHDPE (.145)	DF/95% TC (3.8)	PVC (.234)	.031	75	16.3	-30 to +75	300
RG-59/U Type	**1505F**	6.29	Belden	7/.031″ BC (12.2)	GIFHDPE (.145)	None/94% BC (2.4) None/94% BC (2.4)	PVC (.242)	.040	75	17.0	-35 to +75	300
RG-59/U Type Plenum	**1506A**	6.42	Belden	1/.032″ BC (10.0)	FFEP (.133)	DF/95% TC (3.8)	FLM (.196)	.027	75	16.0	-20 to +75	300
RG-59/U Type Triaxial	**1856A**	6.52	Belden	1/.032″ BC (10.1)	GIFHDPE (.145)	Inner None/95% BC (2.5) Outer None/95% BC (1.6)	Inner PE (.216) Outer BELFX (.360)	.070	75	16.2	-35 to +75	300
RG-59/U Type Triax	**1856B**	6.52	Belden	1/.032″ BC (10.1)	GIFHDPE (.145)	Inner None/95% BC (2.5) Outer None/95% BC (1.6)	Inner PVC (.216) Outer BELFX (.360)	.073	75	16.2	-35 to +75	300
RG-59/U Type Triaxial High-Flex Version	**1857A**	6.51	Belden	19/.031″ BC (14.0)	FPE (.143)	Inner None/95% BC (2.5) Outer None/90% BC (1.6)	Inner PE (.216) Outer BELFX (.360)	.075	75	17.0	-35 to +75	300
RG-59/U Type	**8212**	6.37	Belden	1/.032″ CCS (44.5)	FPE (.143)	None/95% BC (2.6)	PE (.242)	.030	75	17.3	-55 to +80	300
RG-59/U Type	**8221**	6.36	Belden	1/.0253″ BCCS (50.0)	FPE (.146)	None/85% BC (2.6)	PVC (.242)	.032	80	16.3	-40 to +75	300
RG-59/U Type Triaxial	**8232**	6.51	Belden	1/.032″ BC (10.0)	GIFHDPE (.145)	Inner None/95% BC (2.5) Outer None/80% BC (2.8)	Inner PE (.225) Outer PE (.315)	.054	75	16.2	-55 to +80	300
RG-59/U Type Triaxial	**8232A**	6.51	Belden	1/.032″ BC (10.0)	GIFHDPE (.145)	Inner None/98% BC (2.5) Outer None/80% BC (2.8)	Inner PVC (.226) Outer PVC (.315)	.065	75	16.2	-40 to +75	300
RG-59/U Type	**8241**	6.35	Belden	1/.023″ BCCS (49.0)	PE (.146)	None/95% BC (2.6)	PVC (.240)	.036	75	20.5	-40 to +75	1,700

*Inner conductors are entered as: number of strands/strand diameter (in inches).

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RG Coaxial and Triaxial Reference Guide

RG-59/U Type

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
RG-59/U Type *(continued)*												
RG-59/U Type	**8241A**	6.35	Belden	1/.023″ BCCS (49.0)	FRSFPE (.146)	None/95% BC (2.6)	PVC (.242)	.039	75	20.5	-40 to +75	300
RG-59/U Type	**8241B**	6.35	Belden	1/.0228″ BC (20.0)	PE (.146)	None/95% BC (2.9)	PVC (.242)	.038	75	20.5	-20 to +75	300
RG-59/U Type	**8241F**	6.35	Belden	7/.030″ BC (15.0)	FPE (.146)	None/95% BC (2.6)	PVC (.242)	.033	75	17.3	-30 to +60	300
RG-59B/U Type	**8263**	6.36	MIL-C-17D	1/.023″ BCCS (49.0)	PE (.146)	None/95% BC (2.6)	PVC-NC (.242)	.035	75	20.5	-40 to +60	1,700
RG-59/U Type Precision	**8279**	6.41	Belden	7/.023″ BCC (19.1)	PE (.146)	None/95% TC (4.5)	PE (.220)	.026	75	21.0	-55 to +80	2,300
RG-59/U Type Precision Video	**8281**	6.30	Belden	1/.031″ BC (9.9)	PE (.198)	None/97% TC None/95% TC (1.1)	PE (.305)	.068	75	21.0	-55 to +80	2,900
RG-59/U Type Precision Video	**8281B**	6.30	Belden	1/.031″ BC (9.9)	FRSFPE (.198)	None/97% TC None/95% TC (1.1)	PVC (.305)	.078	75	21.0	-40 to +80	300
RG-59/U Type Precision Video	**8281F**	6.30	Belden	7/.0315″ BCC (12.2)	PE (.198)	None/97% TC None/95% TC (1.7)	PVC (.305)	.060	75	21.0	-20 to +60	2,900
RG-59/U Type	**9100**	6.16	Belden	1/.032″ BCCS (44.5)	GIFPE (.144)	DBII/40% AL (17.0)	PVC (.237)	.020	75	16.2	-40 to +80	300
RG-59/U Type	**9104**	6.17	Belden	1/.032″ BCCS (44.5)	GIFPE (.144)	DBII/67% AL (12.0)	PVC (.237)	.024	75	16.2	-40 to +80	300
RG-59/U Type	**9104N**	6.17	Belden	1/.032″ BCCS (44.5)	GIFPE (.144)	DBII/67% AL (12.0)	PVC (.237)	.024	75	16.2	-40 to +80	300
RG-59/U Type Plenum	**9104P**	6.17	Belden	1/.032″ BCCS (44.5)	FFEP (.140)	DBII/67% AL (12.0)	FLM (.203)	.024	75	16.3	-20 to +75	300
RG-59/U Type	**9105M**	6.17	Belden	1/.032″ BCCS (44.5)	GIFHDPE (.140)	DBII/67% AL (12.0)	PVC (.240 x .387)	.037	75	16.2	-40 to +80	300
RG-59/U Type	**9110**	6.17	Belden	1/.032″ BCCS (44.5)	GIFHDPE (.144)	DBIII/67% AL (12.0)	PVC (.242)	.022	75	16.2	-40 to +80	300
RG-59/U Type Precision Video	**9141**	6.43	Belden	1/.031″ BC (9.9)	PE (.200)	None/97% TC None/95% TC (1.1)	PE (.305)	.069	75	20.0	-55 to +80	1,900
RG-59/U Type	**9167**	6.29	Belden	1/.032″ SPCCS (25.8)	GIFPE (.144)	DB+/95% AL (4.5)	PVC (.242)	.028	75	16.2	-40 to +80	300
RG-59/QPL M17/29-RG59	**9204**	6.79	MIL-C-17G	1/.023″ BCCS (47.0)	PE (.146)	None/95% BC (2.6)	PVC-NC (.241)	.034	75	20.5	-40 to +85	1,700
RG-59/U Type Precision Video	**9209**	6.41	Belden	1/.023″ BC (20.4)	PE (.146)	DF/95% TC (4.5)	PE (.220)	.026	75	21.0	-55 to +80	2,300
RG-59/U Type Precision Video	**9209A**	6.41	Belden	1/.023″ BC (20.4)	FRSFPE (.146)	DF/95% TC (4.5)	PVC (.220)	.035	75	20.5	-40 to +75	300
RG-59/U Type	**9224**	6.82	Belden	1/.025″ BCCS (54.0)	PE (.146)	None/93% BC (2.5)	PVC (.242)	.033	75	22.0	-40 to +75	1,900
RG-59/U Type Precision Video	**9231**	6.42	W/E 728B	1/.031″ BC (9.9)	PE (.198)	None/97% TC None/95% TC (1.1)	PVC (.305)	.071	75	21.0	-40 to +60	1,900
RG-59/U Type	**9240**	6.37	Belden	1/.032″ BCCS (44.5)	FPE (.143)	None/80% BC (5.6)	PVC (.241)	.028	75	17.3	-40 to +75	300
RG-59/U Type	**9244**	6.36	Belden	1/.025″ BCCS (50.0)	PE (.146)	None/85% BC (4.5)	PVC (.242)	.034	75	19.4	-40 to +80	1,700
RG-59/U Type	**9259**	6.36	Belden	7/.030″ BC (15.0)	FPE (.146)	None/95% BC (2.6)	PVC (.241)	.033	75	17.3	-40 to +80	300
RG-59/U Type Triaxial	**9267**	6.52	Belden	1/.032″ BC (10.0)	GIFHDPE (.145)	Inner None/95% BC (2.5) Outer None/80% BC (2.6)	Inner PE (.216) Outer H (.360)	.079	75	16.3	-20 to +80	300

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RG Coaxial and Triaxial Reference Guide

RG-59/U, RG-62 and Other Misc. RG Types

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
RG-59/U Type *(continued)*												
RG-59/U Type	**9274**	6.37	Belden	1/.032″ BCCS (44.5)	FPE (.143)	None/95% BC (3.5)	PVC (.240)	.030	75	16.3	-40 to +80	300
RG-59/U Type	**9275**	6.16	Belden	1/.032″ BCCS (44.5)	GIFPE (.144)	DF/40% AL (17.0)	PVC (.237)	.023	75	16.2	-40 to +80	300
RG-59/U Type Dual	**9555**	6.84	Belden	1/.023″ BCCS (50.0)	FRSFPE (.146)	None/95% BC (2.6)	PVC (.238 x .478)	.075	75	20.5	-40 to +80	300
RG-59/U Type	**9659**	6.36	Belden	7/.030″ BC (15.0)	FPE (.146)	None/95% BC (2.6)	PVC-NC (.242)	.032	75	17.3	-40 to +80	300
RG-59/U Type Plenum	**82108**	6.18	Belden	1/.032″ BCCS (26.0)	FFEP (.140)	DF/96% TC (2.6)	FLM (.202)	.035	75	16.5	0 to +75	300
RG-59/U Type Plenum	**82241**	6.35	Belden	1/.023″ BCCS (49.0)	FEP (.134)	None/97% BC (2.6)	FLM (.190)	.035	75	19.5	-20 to +75	1,700
RB-59/U Type Plenum	**82259**	6.36	Belden	7/.030″ BC (15.0)	FFEP (.135)	None/95% BC (2.6)	FLM (.193)	.036	75	17.3	-20 to +75	300
RG-59/U Type Plenum	**88241**	6.35	Belden	1/.023″ BCCS (49.0)	FEP (.132)	None/97% BC (2.6)	FEP (.190)	.037	75	19.5	-70 to +200	1,700
RG-59/U Type Plenum Triax	**88232**	6.51	Belden	1/.032″ BC (32.8)	FFEP (.140)	Inner None/95% BC (2.6) None/95% BC (2.6)	Inner FEP (.188) Outer FEP (.245)	.060	75	16.9	-40 to +200	300
RG-59/U Type Precision Video Plenum	**88281**	6.43	Belden	1/.032″ BC (9.9)	FEP (.185)	None/98% TC None/96% TC (1.1)	PVDF (.271)	.082	75	19.0	-20 to +150	1,900
RG-59/U Type Plenum	**89108**	6.18	Belden	1/.032″ BCCS (26.0)	FFEP (.140)	DF/96% TC (2.6)	FEP (.203)	.035	75	16.5	-70 to +200	300
RG-59/U Type Plenum	**89259**	6.36	Belden	7/.030″ BC (15.0)	FFEP (.135)	None/95% BC (2.6)	FEP (.193)	.036	75	17.3	-70 to +200	300
RG-59/U Type Dual Plenum	**89555**	6.84	Belden	1/.023″ BCCS (50.0)	FEP (.134)	None/97% BC (2.6)	FEP (.212 x .424)	.085	75	19.5	-70 to +200	1,700
RG-62 Type												
RG-62/U Type	**8254**	6.85	JAN-C-17A	1/.025″ BCCS (41.2)	SSPE (.146)	None/95% BC (2.9)	PVC (.238)	.033	93	13.5	-40 to +80	750
RG-62B/U Type	**8255**	6.85	MIL-C-17D	7/.024″ BCCS (59.0)	SSPE (.146)	None/95% BC (2.9)	PVC-NC (.242)	.032	93	13.5	-40 to +80	750
RG-62A/U Type	**9228**	6.85	Belden	1/.025″ BCCS (41.2)	SSPE (.146)	None/95% BC (2.9)	HDPE (.242)	.033	93	13.5	-55 to +80	750
RG-62A/U Type	**9268**	6.85	Belden, IBM P/N 5252750	1/.025″ BCCS (41.2)	SSPE (.146)	None/95% BC (2.9)	PVC (.260)	.037	93	13.5	-40 to +80	750
RG62A/U Type	**9269**	6.85	Belden, IBM P/N 323921	1/.025″ BCCS (41.2)	SSPE (.146)	None/95% BC (2.9)	PVC (.239)	.034	93	13.5	-40 to +80	750
RG-62/QPL M17/30-RG62	**9862**	6.80	MIL-C-17G	1/.025″ BCCS (41.2)	SSPE (.146)	None/95% BC (2.9)	PVC-NC (.242)	.033	93	13.5	-40 to +80	750
RG-62/U Type Plenum	**82262**	6.86	Belden	1/.025″ BCCS (41.2)	FFEP (.146)	None/94% BC (3.4)	FLM (.204)	.035	93	12.5	0 to +75	300
RG-62/U Type Plenum	**82269**	6.86	Belden	1/.025″ BCCS (41.2)	SSFEP (.142)	None/94% BC (3.4)	FLM (.200)	.035	93	12.8	0 to +75	750
RG-62/U Type Plenum	**86262**	6.86	Belden, IBM	1/.025″ BCCS (41.2)	FFEP (.146)	None/94% BC (3.4)	FEP (.204)	.035	93	12.5	-70 to +200	300
RG-62/U Type Plenum	**87269**	6.86	Belden	1/.025″ BCCS (41.2)	SSFEP (.142)	None/94% BC (3.4)	PVDF (.200)	.031	93	12.8	-20 to +150	750
RG-62/U Type Plenum	**89269**	6.86	Belden, IBM	1/.025″ BCCS (41.2)	SSFEP (.142)	None/94% BC (3.4)	FEP (.200)	.033	93	12.8	-70 to +200	750
Other Misc. RG Types												
RG-63/QPL M17/31-RG63	**9857**	6.80	MIL-C-17G	1/.025″ BCCS (41.2)	SSPE (.285)	None/97% BC (1.2)	PVC-NC (.405)	.078	125	9.7	-40 to +80	750
RG-71/QPL M17/90-RG71	**9169**	6.80	MIL-C-17G	1/.025″ BCCS (41.2)	SSPE (.146)	None/95% BC None/95% TC (1.5)	PE (.245)	.042	93	13.5	-55 to +80	750

*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

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RG Coaxial and Triaxial Reference Guide

Misc. RG Types and Miniature Coax

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
Other Misc. RG Types *(continued)*												
RG-122/U QPL M17/157-00001	**9252**	6.76	MIL-C-17G	27/.030″ TC (17.1)	PE (.096)	None/95% TC (5.2)	PVC-NC (.160)	.017	50	30.8	-40 to +80	1,400
RG-142B/U QPL M17/158-00001	**83242**	6.77	MIL-C-17G	1/.037″ SCCS (19.3)	TFE (.116)	None/96% SC None/96% SC (2.3)	FEP (.195)	.043	50	29.0	-70 to +200	1,400
RG-142/ QPL M17/60-RG142	**84142**	6.77	MIL-C-17G	1/.037″ SCCS (19.3)	TFE (.116)	None/96% SC None/96% SC (2.3)	FEP (.195)	.043	50	29.0	-70 to +200	1,400
RG-174/U Type RF100	**7805**	6.59	Belden	1/.018″ BC (32.0)	PE (.061)	DF/90% TC (9.1)	PVC (.110)	.010	50	31.2	-40 to +75	1,100
RG-174/U Type RF 100 Low Loss	**7805R**	6.59	Belden	1/.0195″ BC (27.3)	FPE (.060)	DF/90% TC (9.4)	PVC (.110)	.010	50	26.2	-40 to +75	300
RG-174/U Type	**8216**	6.67	MIL-C-17F	7/.019″ BCCS (97.0)	PE (.060)	None/90% TC (10.7)	PVC (.110)	.008	50	30.8	-40 to +75	1,100
RG-174/U Type	**9239**	6.82	Belden	7/.019″ BCCS (97.0)	PE (.044)	None/90% TC (14.0)	PVC (.101)	.008	50	38.0	-40 to +60	1,100
RG-178B/U QPL M17/169-00001	**83265**	6.76	MIL-C-17G	7/.012″ SPCCS (244.0)	TFE (.033)	None/95% SPC (14.6)	FEP (.071)	.005	50	29.0	-70 to +200	750
RG-179/QPL M17/94-RG179	**83264**	6.79	MIL-C-17G	7/.012″ SPCCS (244.0)	TFE (.062)	None/94% SPC (8.5)	FEP (.100)	.010	75	19.5	-70 to +200	900
RG-180/QPL M17/95-RG180	**83266**	6.80	MIL-C-17G	7/.012″ SPCCS (244.0)	TFE (.102)	None/91% SPC (6.5)	FEP (.141)	.018	95	15.0	-70 to +200	1,100
RG-187A/U Type	**83267**	6.84	MIL-C-17D	7/.012″ SPCCS (244.0)	TFE (.063)	None/95% SPC (8.6)	TFE-T (.103)	.010	75	19.5	-70 to +200	900
RG-188A/U Type	**83269**	6.67	MIL-C-17D	7/.020″ SCCCS (91.2)	TFE (.058)	None/96% SPC (8.5)	TFE-T (.098)	.011	50	29.0	-70 to +200	900
RG-212/U QPL M17/162-00001	**9861**	6.78	MIL-C-17G	1/.056″ SPC (3.3)	PE (.185)	None/95% SPC None/95% SC (1.1)	PVC-NC (.332)	.081	50	30.8	-50 to +80	2,200
RG-213/U QPL M17/163-00001	**8267**	6.78	MIL-C-17G	7/.089″ BC (1.7)	PE (.285)	None/96% BC (1.2)	PVC-NC (.405)	.102	50	30.8	-40 to +80	3,700
RG-214/U QPL M17/164-00001	**8268**	6.78	MIL-C-17G	7/.089″ SPC (1.7)	PE (.285)	None/97% SPC None/97% SPC (.7)	PVC-NC (.425)	.128	50	30.8	-40 to +80	3,700
RG-216/QPL M17/77-RG216	**9850**	6.79	MIL-C-17G	7/.048″ TC (6.1)	PE (.285)	None/95% BC None/95% BC (.8)	PVC-NC (.425)	.122	75	20.5	-40 to +80	3,700
RG-223/U QPL M17/167-00001	**9273**	6.77	MIL-C-17G	1/.034″ SCC (8.8)	PE (.117)	None/95% SCC None/95% SCC (2.5)	PVC-NC (.212)	.036	50	30.8	-40 to +60	1,400
RG-303/QPL M17/111-RG303	**84303**	6.77	MIL-C-17G	1/.037″ SCCCS (16.3)	TFE (.116)	None/95% SCC (4.3)	FEP (.170)	.030	50	29.0	-70 to +200	1,400
RG-316/U QPL M17/172-00001	**83284**	6.76	MIL-C-17G	7/.020″ SPCCS (84.1)	TFE (.058)	None/95% SPC (6.5)	FEP (.098)	.010	50	29.0	-70 to +200	900
RG-316/QPL M17/113-RG316	**84316**	6.76	MIL-C-17G	7/.020″ SPCCS (84.1)	TFE (.058)	None/95% SPC (6.5)	FEP (.098)	.010	50	29.0	-70 to +200	900
Miniature Coax												
Miniature Coax	**8218**	6.34	Belden	7/.017″ BCCS (120.0)	PE (.100)	None/93% TC (5.7)	PVC (.150)	.014	75	20.5	-40 to +60	1,700
Miniature Coax	**8700**	6.82	Belden	1/.013″ TC (66.9)	PP (.023)	None/90% BC (28.7)	PVC (.054)	.003	32	55.2	-30 to +105	300
Miniature Coax	**9221**	6.34	Belden	7/.012″ TC (100.0)	FHDPE (.058)	None/89% TC (11.7)	PVC (.097)	.006	75	17.3	-40 to +60	30
Miniature RG-59/U Type	**1855A**	6.40	Belden	1/.023″ BC (20.1)	GIFHDPE (.102)	DF/95% TC (7.6)	PVC (.159)	.018	75	16.3	-30 to +75	300
Sub-Miniature RG-59/U Type	**1865A**	6.40	Belden	19/.021″ BC (27.4)	GIFHDPE (.094)	DF/95% TC (5.4)	PVC (.150)	.014	75	16.5	-40 to +75	300

*Inner conductors are entered as: number of strands/strand diameter (in inches).

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RG Coaxial and Triaxial Reference Guide

Bundled Coax

Cable Designation	Part No.	No. of Coax	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
Bundled Coax													
Bundled Coax Sub-Miniature RGB	**1520A**	3	6.47	Belden	7/.012″ TC (100.0)	FHDPE (.056)	DF/90% TC (9.5)	PVC (.283)	.042	75	17.3	-40 to +60	300
Bundled Coax Sub-Miniature RGB	**1521A**	4	6.47	Belden	7/.012″ TC (100.0)	FHDPE (.056)	DF/90% TC (9.5)	PVC (.310)	.050	75	17.3	-40 to +60	300
Bundled Coax Sub-Miniature RGB	**1522A**	5	6.47	Belden	7/.012″ TC (100.0)	FHDPE (.056)	DF/90% TC (9.5)	PVC (.338)	.058	75	17.3	-40 to +60	300
Bundled Coax Miniature RGB	**1406B**	3	6.47	Belden	7/.019″ BC (41.5)	FHDPE (.090)	DF/93% TC (8.6)	PVC (.388)	.064	75	17.3	-40 to +60	300
Bundled Coax Miniature RGB	**1407B**	4	6.47	Belden	7/.019″ BC (41.5)	FHDPE (.090)	DF/93% TC (8.6)	PVC (.455)	.088	75	17.3	-40 to +60	300
Bundled Coax Miniature RGB	**1417B**	5	6.47	Belden	7/.019″ BC (41.5)	FHDPE (.090)	DF/93% TC (8.6)	PVC (.477)	.102	75	17.3	-40 to +60	300
Bundled Coax RGB	**1164B**	3	6.48	Belden	7/.019″ BC (41.5)	FHDPE (.090)	DF/93% TC (8.6)	PVC (.388)	.066	75	17.3	-40 to +60	300
Bundled Coax RGB	**1167B**	4	6.48	Belden	7/.019″ BC (41.5)	FHDPE (.090)	DF/93% TC (8.6)	PVC (.455)	.090	75	17.3	-40 to +60	300
Bundled Coax RGB	**1418B**	5	6.48	Belden	7/.019″ BC (41.5)	FHDPE (.090)	DF/93% TC (8.6)	PVC (.477)	.104	75	17.3	-40 to +60	300
Bundled Coax RGB	**1277R**	3	6.48	Belden	1/.018″ TC (34.0)	FPFA (.074)	DB/95% TC (5.4)	PVC (.320)	.048	75	17.0	-40 to +75	300
Bundled Coax RGB	**1278R**	4	6.48	Belden	1/.018″ TC (34.0)	FPFA (.074)	DB/95% TC (5.4)	PVC (.351)	.060	75	17.0	-40 to +75	300
Bundled Coax RGB	**1279R**	5	6.48	Belden	1/.018″ TC (34.0)	FPFA (.074)	DB/95% TC ((5.4)	PVC (.403)	.080	75	17.0	-40 to +75	300
Bundled Coax RGB	**1280R**	6	6.48	Belden	1/.018″ TC (34.0)	FPFA (.074)	DB/95% TC (5.4)	PVC (.423)	.087	75	17.0	-40 to +75	300
Bundled Coax RGB Plenum	**1277P**	3	6.48	Belden	1/.018″ TC (34.0)	FPFA (.074)	DB/95% TC (5.4)	PVC (.276)	.043	75	16.8	-20 to +75	300
Bundled Coax RGB Plenum	**1278P**	4	6.48	Belden	1/.018″ TC (34.0)	FPFA (.074)	DB/95% TC (5.4)	PVC (.304)	.053	75	16.8	-20 to +75	300
Bundled Coax RGB Plenum	**1279P**	5	6.48	Belden	1/.018″ TC (34.0)	FPFA (.074)	DB/95% TC (5.4)	PVC (.335)	.068	75	16.8	-20 to +75	300
Bundled Coax RGB Plenum	**1280P**	6	6.48	Belden	1/.018″ TC (34.0)	FPFA (.074)	DB/95% TC (5.4)	PVC (.369)	.079	75	16.8	-20 to +75	300
Bundled Coax RGB BananaPeel®	**1281S3**	3	6.49	Belden	1/.018″ TC (34.0)	GIFHDPE (.074)	DB/95% TC (5.4)	PVC (.246)	.031	75	17.0	-40 to +75	300
Bundled Coax RGB BananaPeel	**1281S4**	4	6.49	Belden	1/.018″ TC (34.0)	GIFHDPE (.074)	DB/95% TC (5.4)	PVC (.275)	.044	75	17.0	-40 to +75	300
Bundled Coax RGB BananaPeel	**1281S5**	5	6.49	Belden	1/.018″ TC (34.0)	GIFHDPE (.074)	DB/95% TC (5.4)	PVC (.308)	.055	75	17.0	-40 to +75	300
Bundled Coax RGB BananaPeel	**1281S6**	6	6.49	Belden	1/.018″ TC (34.0)	GIFHDPE (.074)	DB/95% TC (5.4)	PVC (.342)	.068	75	17.0	-40 to +75	300
Bundled Coax RGB BananaPeel Plenum	**1282S3**	3	6.49	Belden	1/.018″ TC (34.0)	FPFA (.075)	DB/95% TC (5.4)	FLM (.246)	.034	75	16.8	-20 to +75	300
Bundled Coax RGB BananaPeel Plenum	**1282S4**	4	6.49	Belden	1/.018″ TC (34.0)	FPFA (.075)	DB/95% TC (5.4)	FLM (.275)	.049	75	16.8	-20 to +75	300
Bundled Coax RGB BananaPeel Plenum	**1282S5**	5	6.49	Belden	1/.018″ TC (34.0)	FPFA (.075)	DB/95% TC (5.4)	FLM (.308)	.067	75	16.8	-20 to +75	300
Bundled Coax RGB BananaPeel Plenum	**1282S6**	6	6.49	Belden	1/.018″ TC (34.0)	FPFA (.075)	DB/95% TC (5.4)	FLM (.342)	.080	75	16.8	-20 to +75	300

*Inner conductors are entered as: number of strands/strand diameter (in inches).

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RG Coaxial and Triaxial Reference Guide

Bundled and S-Video Coax

Cable Designation	Part No.	No. of Coax	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
Bundled Coax *(continued)*													
RG-6 Type Bundled SDI Coax	**7710A**	3	6.46	Belden	1/.040″ BC (6.4)	GIFPE (.180)	DF/95% TC (3.0)	PVC-M (.770)	.234	75	16.2	-40 to +75	300
RG-6 Type Bundled SDI Coax	**7711A**	4	6.46	Belden	1/.040″ BC (6.4)	GIFPE (.180)	DF/95% TC (3.0)	PVC-M (.900)	.303	75	16.2	-40 to +75	300
RG-6 Type Bundled SDI Coax	**7712A**	5	6.46	Belden	1/.040″ BC (6.4)	GIFPE (.180)	DF/95% TC (3.0)	PVC-M (.970)	.371	75	16.2	-40 to +75	300
RG-6 Type Bundled SDI Coax	**7713A**	10	6.46	Belden	1/.040″ BC (6.4)	GIFPE (.180)	DF/95% TC (3.0)	PVC-M (1.386)	.772	75	16.2	-40 to +75	300
RG-59/U Type Bundled (Miniature)	**7787A**	3	6.45	Belden	1/.023″ BC (20.1)	GIFHDPE (.102)	DF/95% TC (7.6)	PVC (.432)	.081	75	16.5	-35 to +75	300
RG-59/U Type Bundled (Miniature)	**7788A**	4	6.45	Belden	1/.023″ BC (20.1)	GIFHDPE (.102)	DF/95% TC (7.6)	PVC (.481)	.106	75	16.5	-35 to +75	300
RG-59/U Type Bundled (Miniature)	**7789A**	5	6.45	Belden	1/.023″ BC (20.1)	GIFHDPE (.102)	DF/95% TC (7.6)	PVC (.539)	.133	75	16.5	-35 to +75	300
RG-59/U Type Bundled (Miniature)	**7790A**	6	6.45	Belden	1/.023″ BC (20.1)	GIFHDPE (.102)	DF/95% TC (7.6)	PVC (.597)	.163	75	16.5	-35 to +75	300
RG-59/U Type Bundled (Miniature)	**7791A**	12	6.45	Belden	1/.023″ BC (20.1)	GIFHDPE (.102)	DF/95% TC (7.6)	PVC (.796)	.280	75	16.5	-35 to +75	300
RG-59/U Type Bundled (Miniature)	**7792A**	12	6.45	Belden	1/.023″ BC (20.1)	GIFHDPE (.102)	DF/95% TC (7.6)	PVC (.825)	.336	75	16.5	-35 to +75	300
RG-59/U Type Bundled	**7794A**	3	6.45	Belden	1/.032″ BC (10.0)	GIFHDPE (.145)	DF/95% TC (3.8)	PVC (.631)	.084	75	16.3	-35 to +75	300
RG-59/U Type Bundled	**7795A**	4	6.45	Belden	1/.032″ BC (10.0)	GIFHDPE (.145)	DF/95% TC (3.8)	PVC (.706)	.190	75	16.3	-35 to +75	300
RG-59/U Type Bundled	**7796A**	5	6.45	Belden	1/.032″ BC (10.0)	GIFHDPE (.145)	DF/95% TC (3.8)	PVC (.790)	.238	75	16.3	-35 to +75	300
RG-59/U Type Bundled	**7798A**	10	6.45	Belden	1/.032″ BC (10.0)	GIFHDPE (.145)	DF/95% TC (3.8)	PVC (1.166)	.501	75	16.3	-35 to +75	300
RG-59/U Type Bundled RGB Coax BananaPeel Plenum	**1283S3**	3	6.46	Belden	1/.032″ TC (10.0)	FFEP (.133)	DF/95% TC (3.8)	PVC (.422)	.103	75	16.2	-20 to +75	300
RG-59/U Type Bundled RGB Coax BananaPeel Plenum	**1283S5**	5	6.46	Belden	1/.032″ TC (10.0)	FFEP (.133)	DF/95% TC (3.8)	PVC (.529)	.174	75	16.2	-20 to +75	300
RG-59/U Type Bundled RGB Coax BananaPeel Plenum	**1283S6**	6	6.46	Belden	1/.032″ TC (10.0)	FFEP (.133)	DF/95% TC (3.8)	PVC (.588)	.209	75	16.2	-20 to +75	300
S-Video Coax													
Parallel Coax S-Video Plenum	**7700A**	2	6.50	Belden	7/.012″ TC (100.0)	FFEP (.053)	None/98% TC (7.5)	FLM (.107 x .214)	.017	75	17.3	-20 to +60	300
Parallel Coax S-Video High-Flex	**1807A**	2	6.50	Belden	7/.012″ TC (100.0)	FHDPE (.056)	None/90% TC (7.5)	PVC (.110 x .230)	.013	75	17.3	-40 to +75	300
Round S-Video High-Flex Design	**1808A**	2	6.50	Belden	7/.012″ TC (100.0)	FHDPE (.056)	None/90% TC (7.5)	PVC (.255)	.031	75	17.3	-40 to +75	300

*Inner conductors are entered as: number of strands/strand diameter (in inches).

Conductor Abbreviations
BC = Bare Copper
BCCA = Bare Copper-covered Aluminum
CCS = Copper-clad Steel
SC = Silver-coated Copper
SCA = Silver-coated Alloy
SCCS = Silver-coated Copper-covered Steel
SPC = Silver-plated Copper
SPCCS = Silver-plated Copper-covered Steel
TC = Tinned Copper

Braid Abbreviations
AL = Aluminum
BC = Bare Copper
CT = Copper-Tin Composite
SC = Silver-coated Copper
SPC = Silver-plated Copper
TC = Tinned Copper

Tape Abbreviations
BB = Bonded Beldfoil®
BF = Beldfoil
DB = Duobond®
DBII = Duobond II
DBIII = Duobond III
DBIV = Duobond IV
DB+ = Duobond Plus®
DF = Duofoil®
F = Foil

Insulation Abbreviations
FEP = Fluorinated Ethylene Propylene
FFEP = Foam FEP
FHDPE = Foam High-Density Polyethylene
FPE = Foam Polyethylene
FRSFPE = Flame-retardant Semi-foam Polyethylene
GIFHDPE = Gas-injected Foam High-Density Polyethylene
GIFPE = Gas-injected Foam Polyethylene
PE = Solid Polyethylene
PP = Solid Polypropylene
SSFEP = Semi-solid FEP
SSPE = Semi-solid Polyethylene
TFE = Tetrafluoroethylene

Jacket Abbreviations
BELFX = Belflex®
FCP = Fluorocopolymer
FEP = Fluorinated Ethylene Propylene
FG = Fiberglass
FLM = Flamarrest®
H = Hypalon®
HDPE = High-density Polyethylene
LSZH = Low-Smoke, Zero-Halogen
PE = Polyethylene
PVC = Polyvinyl Chloride
PVC-M = Matte finish Polyvinyl Chloride
PVC-NC = Non-contaminating Polyvinyl Chloride
TFE-T = Tetrafluoroethylene Tape Wrap

Hypalon is a DuPont trademark.

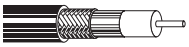
For information on coaxial cables not listed in this table, or for a comprehensive Connector Cross-Reference, please contact Belden Electronics Division, Technical Support at: **1-800-BELDEN-1**.

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Broadband Coax

MATV Cables
Series 59

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Series 59 • 20 AWG Solid .032″ Bare Copper-covered Steel Conductor • Foil + Braid Shield (40% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C 	**9275**	NEC: CATV CM CEC: CM	U-500 U-1000▲ 1000	U-152.4 U-304.8 304.8	12.0 23.0 24.0	5.5 10.4 10.9	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.144	3.66	Duofoil® + 40% Aluminum Braid 17.0Ω/M′ 55.8Ω/km	.237	6.02	75	83%	16.2	53.1	Sweep tested 5 MHz to 550 MHz.		See Chart on page 6.92
▲U-1000 ft. put-up also available in White.																			
80°C 	**9100**	NEC: CATV CM CEC: CM	U-500 U-1000▲ 1000	U-152.4 U-304.8 304.8	12.0 23.0 24.0	5.5 10.4 10.9	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.144	3.66	Duobond® II* + 40% Aluminum Braid 17.0Ω/M′ 55.8Ω/km	.237	6.02	75	83%	16.2	53.1	Sweep tested 5 MHz to 1 GHz.		See Chart on page 6.92
▲U-1000 ft. put-up also available in White.																			

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

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Broadband Coax

CATV Cables

Series 59

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

Series 59 • 20 AWG Solid .032″ Bare Copper-covered Steel Conductor • Duofoil® (100% Coverage) + TC Braid Shield(s) (96% Coverage)

Plenum • Foam FEP Teflon® Insulation • Black FEP Jacket

200°C	**89108**	NEC: CATVP CMP CEC: CMP	500† 1000†	152.4 304.8	17.0 34.0	7.7 15.4	20 AWG (solid) .032″ BCCS 26.0Ω/M′ 85.3Ω/km	.140	3.56	Duofoil + 96% TC Braid 2.6Ω/M′ 8.5Ω/km	.203	5.16	75	82%	16.5	54.1	10 50 100 200 400 700 900 1000	.7 1.8 2.6 3.7 5.4 7.3 8.4 8.9	2.3 5.9 8.5 12.1 17.7 24.0 27.6 29.2
												Sweep tested 5 MHz to 400 MHz.							



Plenum • Foam FEP Teflon Insulation • Natural Flamarrest® Jacket

75°C	**82108**	NEC: CATVP CMP CEC: CMP FT6, CXC FT4	U-1000† 1000†	U-304.8 304.8	34.0 32.0	15.4 14.5	20 AWG (solid) .032″ BCCS 26.0Ω/M′ 85.3Ω/km	.140	3.56	Duofoil + 96% TC Braid 2.6Ω/M′ 8.5Ω/km	.202	5.13	75	82%	16.5	54.1	10 50 100 200 400 700 900 1000	.8 1.8 2.6 3.7 5.4 7.3 8.4 8.9	2.6 5.9 8.5 12.1 17.7 24.0 27.6 29.2
												Sweep tested 5 MHz to 400 MHz.							



Plenum • Foam FEP Teflon Insulation • Snow Beige FEP Jacket

200°C	**1151A**	NEC: CMP CEC: CMP FT6	1000†	304.8	40.0	18.2	20 AWG (solid) .032″ BCCS 26.0Ω/M′ 85.3Ω/km	.140	3.56	(2) Duofoil Shields + (2) TC Braids 2.3Ω/M′ 7.5Ω/km	.236	5.99	75	84%	16.5	54.1	10 50 100 200 400 700 900 1000	.8 1.8 2.6 3.7 5.4 7.3 8.4 8.9	2.6 5.9 8.5 12.1 17.7 24.0 27.6 29.2
												Sweep tested 5 MHz to 400 MHz.							



BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

Teflon is a DuPont trademark.

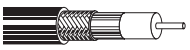
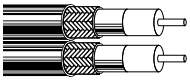
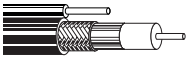
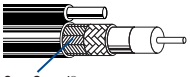
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Broadband Coax

CATV Cables

Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Duobond® II + Aluminum Braid Shield (60% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)																			
Burial 80°C  CoreGuard®	**9066**	—	1000	304.8	26.0	11.8	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.1	See Chart on page 6.92		
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C 	**9116**	NEC: CATV CM CEC: CM	U-500▲ 500▲ S-700 U-1000◆ 1000▼	U-152.4 U-152.4 U-213.4 U-304.8 304.8	15.0 16.0 18.2 30.0 31.0	6.8 7.3 8.3 13.6 14.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.1	See Chart on page 6.92		
▲500 ft. and U-500 ft. put-ups also available in White. ◆U-1000 ft. put-up also available in White, Neutral or Beige. ▼1000 ft. put-up also available in White or Neutral.																			
80°C 	**9116R**	NEC: CATVR CMG CEC: CMG FT4	U-1000 1000	U-304.8 304.8	33.0 34.0	15.0 15.4	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.1	See Chart on page 6.92		
80°C  CoreGuard®	**1545A**	NEC: CATV CM CEC: CM	1000	304.8	31.0	14.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.1	See Chart on page 6.92		
												Sweep tested 5 MHz to 1 GHz.							
80°C 	**9077**	NEC: CATV CM CEC: CM	1000	304.8	64.0	29.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270 x .590	6.86 x 14.99	75	83%	16.2	53.1	See Chart on page 6.92		
												Sweep tested 5 MHz to 1 GHz.							
80°C  .051″ (1.3mm) galvanized steel messenger.	**9117M**	—	1000	304.8	44.0	20.0	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270 x .410	6.86 x 10.41	75	83%	16.2	53.1	See Chart on page 6.92		
80°C  CoreGuard® .051″ (1.3mm) galvanized steel messenger.	**1258AM**	—	1000	304.8	42.0	19.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270 x .410	6.86 x 10.41	75	83%	16.2	53.1	See Chart on page 6.92		
												Sweep tested 5 MHz to 1 GHz.							
Gas-injected Foam Polyethylene Insulation • Black Low-Smoke, Zero-Halogen Jacket																			
LSZH and ABS Type Approved 75°C 	**9116SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	1000	304.8	31.0	14.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.274	6.96	75	83%	16.2	53.1	See Chart on page 6.92		
												Sweep tested 5 MHz to 3 GHz.							
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
75°C 	**9116P**	NEC: CATVP CMP CEC: CMP FT6	U-1000 1000	U-304.8 304.8	27.0 27.0	12.3 12.3	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.235	5.97	75	83%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.3 .7 1.6 2.2 3.0 4.6 6.6 7.7 8.2	1.0 2.2 5.3 7.2 9.8 15.1 21.7 25.3 26.9

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene
Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

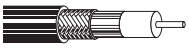
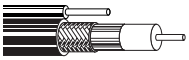
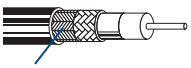
*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

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Broadband Coax

CATV Cables
Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Duobond® II + Aluminum Braid Shield (90% Coverage)																			
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in Black or Neutral)																			
80°C	**1530A**	NEC: CATV CM CEC: CM	U-1000▲ 1000▲	U-304.8 304.8	31.0 32.0	14.1 14.5	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 90% Aluminum Braid 5.0Ω/M′ 16.4Ω/km	.270	6.86	75	83%	16.2	53.1	See Chart on page 6.92		
																			
▲1000 ft. and U-1000 ft. put-ups also available in White Neutral.																			
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
75°C	**1530AP**	NEC: CATVP CMP CEC: CMP FT6	1000	304.8	31.0	14.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	Duobond II* + 90% Aluminum Braid 5.0Ω/M′ 16.4Ω/km	.235	5.97	75	83%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.3 .7 1.6 2.2 3.0 4.6 6.6 7.7 8.2	1.0 2.3 5.3 7.2 9.8 15.1 21.7 25.3 26.9
												Sweep tested 5 MHz to 1 GHz.							
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**1531AM**	—	1000	304.8	45.0	20.4	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 90% Aluminum Braid 5.0Ω/M′ 16.4Ω/km	.270 x .410	6.86 x 10.41	75	83%	16.2	53.1	See Chart on page 6.92		
												Sweep tested 5 MHz to 1 GHz.							
.051″ (1.3mm) galvanized steel messenger.																			
Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)																			
Burial 80°C	**1532A**	—	1000	304.8	27.0	12.3	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 90% Aluminum Braid 5.0Ω/M′ 16.4Ω/km	.270	6.86	75	83%	16.2	53.1	See Chart on page 6.92		
												Sweep tested 5 MHz to 1 GHz.							
CoreGuard®																			

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

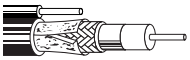
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Broadband Coax

CATV Cables

Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Duobond® III + Aluminum Braid Shield (60% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C 	**9118**	NEC: CATV CM CEC: CM	U-1000▲ 1000	U-304.8 304.8	30.0 30.0	13.6 13.6	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond III* + 60% Aluminum Braid 6.5Ω/M′ 21.3Ω/km	.278	7.06	75	83%	16.2	53.1			See Chart on page 6.92
▲U-1000 ft. put-up also available in Beige, White and White Neutral.																			
80°C 	**9119M**	—	1000	304.8	43.0	19.5	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond III* + 60% Aluminum Braid 6.5Ω/M′ 21.3Ω/km	.275 x .416	6.99 x 10.57	75	83%	16.2	53.1			See Chart on page 6.92
.051″ (1.3mm) galvanized steel messenger.												Sweep tested 5 MHz to 1 GHz.							
80°C  CoreGuard®	**1546A**	NEC: CATV CM CEC: CM	U-1000	U-304.8	31.0	14.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond III* + 60% Aluminum Braid 6.5Ω/M′ 21.3Ω/km	.278	7.06	75	83%	16.2	53.1			See Chart on page 6.92
												Sweep tested 5 MHz to 1 GHz.							
Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)																			
Burial 80°C  CoreGuard®	**1837A**	—	1000	304.8	26.0	11.8	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond III* + 60% Aluminum Braid 6.5Ω/M′ 21.3Ω/km	.275	6.99	75	83%	16.2	53.1			See Chart on page 6.92
												Sweep tested 5 MHz to 1 GHz.							
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Bonded Beldfoil® + Aluminum Braid Shield (50% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C 	**5339G5** new	NEC: CATV, CMG CEC: CMG FT4	U-1000 1000	U-304.8 304.8	24.0 24.0	10.9 10.9	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Bonded Beldfoil + 50% AL Braid 15.0Ω/M′ 49.2Ω/km	.253	6.43	75	83%	16.2	53.1			See Chart on page 6.92
												Sweep tested 5 MHz to 3 GHz.							

AL = Aluminum • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Duobond III = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage).

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Broadband Coax

CATV Cables
Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor(s) • Duobond® III + Aluminum Braid Shield (77% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**1613A**	NEC: CATV CM CEC: CM	B-700▲ U-1000▲ 1000	B-213.0 U-304.8 304.8	19.6 31.0 31.0	8.9 14.1 14.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond III* + 77% Aluminum Braid 5.6Ω/M′ 18.4Ω/km	.278	7.06	75	83%	16.2	53.1			See Chart on page 6.92
▲B-700 also available in White. U-1000 ft. also available in White and White Neutral.																			
80°C	**1615AM**	—	1000	304.8	44.0	20.0	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond III* + 77% Aluminum Braid 5.6Ω/M′ 18.4Ω/km	.275 x .416	6.99 x 10.57	75	83%	16.2	53.1			See Chart on page 6.92
Sweep tested 5 MHz to 1 GHz.																			
.051″ (1.3mm) galvanized steel messenger.																			
80°C	**1616AM**	—	1000	304.8	45.0	20.4	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond III* + 77% Aluminum Braid 5.6Ω/M′ 18.4Ω/km	.275 x .416	6.99 x 10.57	75	83%	16.2	53.1			See Chart on page 6.92
CoreGuard®																			
Min. bend radius for minor axis only.																			
.051″ (1.3mm) galvanized steel messenger.																			
Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)																			
Burial 80°C	**1614A**	—	1000	304.8	27.0	12.3	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond III* + 77% Aluminum Braid 5.6Ω/M′ 18.4Ω/km	.275	6.99	75	83%	16.2	53.1			See Chart on page 6.92
CoreGuard®																			

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Duobond III = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage).

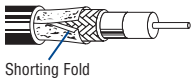
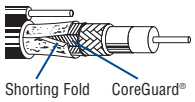
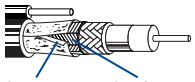
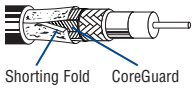
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Broadband Coax

CATV Cables

Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor(s) • Duobond Plus® + Aluminum Braid Shield (77% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**9058**	NEC: CATV CM CEC: CM	U-1000♦ 1000	U-304.8 304.8	32.0 31.0	14.5 14.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond Plus* + 77% Aluminum Braid 5.6Ω/M′ 18.4Ω/km	.275	6.99	75	83%	16.2	53.1	See Chart on page 6.92		
 Shorting Fold																			
♦U-1000 ft. put-up also available in White or Beige.														Sweep tested 5 MHz to 1 GHz.					
Aerial 80°C	**9059M** new	—	1000	304.8	43.0	19.5	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond Plus* + 77% Aluminum Braid 5.6Ω/M′ 18.4Ω/km	.275 x .416	6.99 x 10.57	75	83%	16.2	53.1	See Chart on page 6.92		
 Shorting Fold CoreGuard®														Sweep tested 5 MHz to 1 GHz.					
.051″ (1.3mm) galvanized steel messenger.																			
80°C	**1260AM**	—	1000	304.8	44.0	20.0	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond Plus* + 77% Aluminum Braid 5.6Ω/M′ 18.4Ω/km	.275 x .416	6.99 x 10.57	75	83%	16.2	53.1	See Chart on page 6.92		
 Shorting Fold CoreGuard														Sweep tested 5 MHz to 1 GHz.					
.051″ (1.3mm) galvanized steel messenger.																			
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in Black or Orange)																			
Burial 80°C	**9062**	—	1000	304.8	27.0	12.3	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond Plus* + 77% Aluminum Braid 5.6Ω/M′ 18.4Ω/km	.275	6.99	75	83%	16.2	53.1	See Chart on page 6.92		
 Shorting Fold CoreGuard														Sweep tested 5 MHz to 1 GHz.					

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

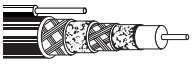
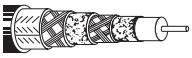
*Duobond Plus = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage) + shorting fold.

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Broadband Coax

CATV Cables
Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Duobond® IV Quad Shield (60% and 40% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**1191AM**	—	1000	304.8	46.0	20.9	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond IV* 60% & 40% Aluminum Braids 4.8Ω/M′ 15.7Ω/km	.298 x .433	7.57 x 11.00	75	83%	16.2	53.1	See Chart on page 6.92		
																			
.051″ (1.3mm) galvanized steel messenger.												Sweep tested 5 MHz to 1 GHz.							
80°C	**1322R** NEW	NEC: CATVR, CMR CEC: CMG FT4	U-1000 1000	U-304.8 304.8	41.0 35.0	18.6 15.9	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond IV* 60% & 40% Aluminum Braids 4.8Ω/M′ 15.7Ω/km	.298	7.57	75	83%	16.2	53.1	5 55 500 750 1000 1450 1800 3000	.5 1.4 4.1 5.1 6.0 7.4 8.3 10.5	1.6 4.6 13.5 16.7 19.7 24.3 27.2 34.5
												Sweep tested 5 MHz to 3 GHz.							
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in Black or White)																			
80°C	**1189A**	NEC: CATV CM CEC: CM	U-500 U-1000 1000▲	U-152.4 U-304.8 304.8	18.0 35.0 35.0	8.2 15.9 15.9	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond IV* 60% & 40% Aluminum Braids 4.8Ω/M′ 15.7Ω/km	.298	7.57	75	83%	16.2	53.1	See Chart on page 6.92		
																			
▲1000 ft. put-up also available in Beige or White Neutral.																			
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
75°C	**1189AP**	NEC: CATVP CMP CEC: CMP FT6	1000	304.8	32.0	14.5	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	Duobond IV* 60% & 40% Aluminum Braids 4.8Ω/M′ 15.7Ω/km	.248	6.30	75	83%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.3 .7 1.6 2.2 3.0 4.6 6.6 7.7 8.2	1.0 2.2 5.3 7.2 9.8 15.1 21.7 25.3 26.9
												Sweep tested 5 MHz to 1 GHz.							

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Duobond IV = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage) + aluminum braid (46% coverage).

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Broadband Coax

CATV Cables
Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Duobond® IV Quad Shield (60% and 40% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket with CoreGuard® (Black or Orange)																			
Burial 80°C	**1190A**	—	1000	304.8	31.0	14.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond IV* 60% + 40% Aluminum Braids 4.8Ω/M′ 15.7Ω/km	.298	7.57	75	83%	16.2	53.1	See Chart on page 6.92		
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Duofoil® (100% Coverage) + TC Braid Shield (95% Coverage)																			
Plenum • Foam FEP Insulation • Black FEP Jacket																			
200°C	**89120**	NEC: CATVP CMP CEC: CMP FT6	500 1000	152.4 304.8	21.5 46.0	9.8 20.9	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	Duofoil 95% TC Braid 1.7Ω/M′ 5.6Ω/km	.234	5.94	75	82%	16.5	54.1	1 10 50 100 200 400 700 900 1000	.3 .7 1.6 2.2 3.0 4.6 6.6 7.7 8.2	1.0 2.2 5.3 7.2 9.8 15.1 21.7 25.3 26.9
Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket																			
150°C	**87120**	NEC: CATVP CMP CEC: CMP FT6, CXC FT4	500 1000	152.4 304.8	20.5 45.0	9.3 20.4	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	Duofoil 95% TC Braid 1.7Ω/M′ 5.6Ω/km	.234	5.94	75	82%	16.5	54.1	1 10 50 100 200 400 700 900 1000	.3 .7 1.6 2.2 3.0 4.6 6.6 7.7 8.2	1.0 2.2 5.3 7.2 9.8 15.1 21.7 25.3 26.9
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
75°C	**82120**	NEC: CATVP CMP CEC: CMP FT6	1000	304.8	44.0	20.0	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	Duofoil 95% TC Braid 1.7Ω/M′ 5.6Ω/km	.234	5.94	75	82%	16.5	54.1	1 10 50 100 200 400 700 900 1000	.3 .7 1.6 2.2 3.0 4.6 6.6 7.7 8.2	1.0 2.2 5.3 7.2 9.8 15.1 21.7 25.3 26.9
Series 6 • 18 AWG Solid .040″ BCCS Conductor • Duofoil (100% Coverage) + TC Braid Shield (60% and 40% Coverage)																			
Plenum • Foam FEP Insulation • Snow Beige FEP Jacket																			
200°C	**1152A**	NEC: CMP CEC: CMP FT6	500 1000	152.4 304.8	27.5 53.0	12.5 24.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	(2) Duofoil Shields + (2) TC Braids 1.8Ω/M′ 5.9Ω/km	.273	6.93	75	82%	16.5	54.1	1 10 50 100 200 400 700 900 1000	.3 .7 1.6 2.2 3.0 4.6 6.6 7.7 8.2	1.0 2.2 5.3 7.2 9.8 15.1 21.7 25.3 26.9



CoreGuard®









BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

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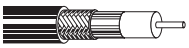
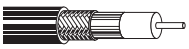
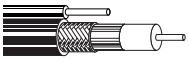
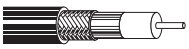
*Duobond IV = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage) + aluminum braid (46% coverage).

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Broadband Coax

CATV Cables
Series 11

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Series 11 • 14 AWG Solid .064″ BCCS Conductor • Duofoil® (100% Coverage) + Aluminum Braid Shield (40% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**9011**	—	1000	304.8	66.0	29.9	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duofoil + 40% Aluminum Braid 5.3Ω/M′ 17.4Ω/km	.400	10.16	75	83%	16.2	53.1	See Chart on page 6.92		
																	Sweep tested 5 MHz to 1 GHz.		
Series 11 • 14 AWG Solid .064″ Bare Copper-covered Steel Conductor • Duobond® II + Aluminum Braid Shield (60% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**1523A**	NEC: CATV CM CEC: CM	1000▲	304.8	67.0	30.4	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond II* + 60% Aluminum Braid 4.1Ω/M′ 13.4Ω/km	.400	10.16	75	83%	16.2	53.1	See Chart on page 6.92		
																	Sweep tested 5 MHz to 1 GHz.		
▲1000 ft. put-up also available in White.																			
80°C	**1523AN**	—	1000	304.8	68.0	30.9	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond II* + 60% Aluminum Braid 4.1Ω/M′ 13.4Ω/km	.400	10.16	75	83%	16.2	53.1	See Chart on page 6.92		
																	Sweep tested 5 MHz to 1 GHz.		
80°C	**1523R**	NEC: CATVR CMR CEC: CMR	500 1000	152.4 304.8	35.0 70.0	15.9 31.8	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond II* + 60% Aluminum Braid 4.1Ω/M′ 13.4Ω/km	.400	10.16	75	83%	16.2	53.1	See Chart on page 6.92		
																	Sweep tested 5 MHz to 1 GHz.		
Aerial 80°C	**1524AM**	—	1000	304.8	90.0	40.8	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond II* + 60% Aluminum Braid 4.1Ω/M′ 13.4Ω/km	.400 x .580	10.16 x 14.73	75	83%	16.2	53.1	See Chart on page 6.92		
																	Sweep tested 5 MHz to 1 GHz.		
.072″ (1.83mm) galvanized steel messenger.																			
Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Available in Black or Orange)																			
Burial 80°C	**1525A**	—	1000	304.8	60.0	27.3	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond II* + 60% Aluminum Braid 4.1Ω/M′ 13.4Ω/km	.400	10.16	75	83%	16.2	53.1	See Chart on page 6.92		
 CoreGuard®																	Sweep tested 5 MHz to 1 GHz.		
Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket																			
150°C	**1523AP**	NEC: CATVP CMP CEC: CMP	1000	304.8	62.0	28.2	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.274	6.96	Duobond II* + 60% Aluminum Braid 4.1Ω/M′ 13.4Ω/km	.348	8.84	75	83%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.2 .4 1.0 1.4 2.3 3.7 5.3 6.4 6.9	.6 1.3 3.3 4.6 7.5 12.1 17.4 21.0 22.6
																	Sweep tested 5 MHz to 1 GHz.		

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

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*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

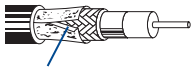
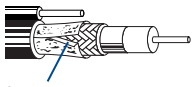
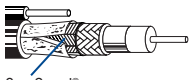
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Broadband Coax

CATV Cables

Series 11

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Series 11 • 14 AWG Solid .064″ Bare Copper-covered Steel Conductor • Duobond Plus® + Aluminum Braid Shield (77% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**9064**	NEC: CATV CM CEC: CM	1000	304.8	68.0	30.9	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond Plus* + 77% Aluminum Braid 3.8Ω/M′ 12.5Ω/km	.400	10.16	75	83%	16.2	53.1			See Chart on page 6.92
 Shorting Fold																			
																			Sweep tested 5 MHz to 1 GHz.
Aerial 80°C	**9065M**	—	1000	304.8	86.0	39.0	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond Plus* + 77% Aluminum Braid 3.8Ω/M′ 12.5Ω/km	.400 x .580	10.16 x 14.73	75	83%	16.2	53.1			See Chart on page 6.92
 Shorting Fold																			
.072″ (1.8mm) galvanized steel messenger.																			Sweep tested 5 MHz to 1 GHz.
Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)																			
Burial 80°C	**9764**	—	1000	304.8	60.0	27.2	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond Plus* + 77% Aluminum Braid 3.8Ω/M′ 12.5Ω/km	.400	10.16	75	83%	16.2	53.1			See Chart on page 6.92
 Shorting Fold																			
																			Sweep tested 5 MHz to 1 GHz.
Series 11 • 14 AWG Solid .064″ Bare Copper-covered Steel Conductor • Duobond® III + Aluminum Braid Shield (77% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
Aerial 80°C	**7983A** new	—	1000	304.8	89.0	40.4	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond III* + 77% Aluminum Braid 4.0Ω/M′ 13.1Ω/km	.400 x .580	10.16 x 14.73	75	83%	16.2	53.1			See Chart on page 6.92
 CoreGuard®																			
.072″ (1.8mm) galvanized steel messenger.																			
Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)																			
Burial 80°C	**7984A** new	—	1000	304.8	57.0	25.9	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond III* + 77% Aluminum Braid 4.0Ω/M′ 13.1Ω/km	.400	10.16	75	83%	16.2	53.1			See Chart on page 6.92
 CoreGuard																			
																			Sweep tested 5 MHz to 1 GHz.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

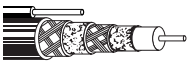
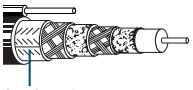
*Duobond Plus = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage) + shorting fold.
Duobond III = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage).

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Broadband Coax

CATV Cables
Series 11

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Series 11 • 14 AWG Solid .064″ Bare Copper-covered Steel Conductor • Duobond® IV Quad Shield (60% and 40% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**1617A**	NEC: CATV CM CEC: CM	1000	304.8	67.0	30.5	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV* 60% & 40% Aluminum Braids 3.0Ω/M′ 9.8Ω/km	.407	10.34	75	83%	16.2	53.1	See Chart on page 6.92		
																			
																	Sweep tested 5 MHz to 1 GHz.		
80°C	**1619AM**	—	1000	304.8	84.0	38.2	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV* 60% & 40% Aluminum Braids 3.0Ω/M′ 9.8Ω/km	.407 x .560	10.34 x 14.22	75	83%	16.2	53.1	See Chart on page 6.92		
																			
.072″ (1.8mm) galvanized steel messenger.																	Sweep tested 5 MHz to 1 GHz.		
80°C	**1620AM**	—	1000	304.8	87.0	39.5	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV* 60% & 40% Aluminum Braids 3.0Ω/M′ 9.8Ω/km	.407 x .560	10.34 x 14.22	75	83%	16.2	53.1	See Chart on page 6.92		
																			
CoreGuard®																	Sweep tested 5 MHz to 1 GHz.		
.072″ (1.8mm) galvanized steel messenger.																			
Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)																			
Burial 80°C	**1618A**	—	1000	304.8	61.0	27.7	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV* 60% & 40% Aluminum Braids 3.0Ω/M′ 9.8Ω/km	.407	10.34	75	83%	16.2	53.1	See Chart on page 6.92		
																			
CoreGuard®																	Sweep tested 5 MHz to 1 GHz.		
Series 11 • 14 AWG Solid .064″ BCCS Conductors • Duofoil® (100% Coverage) + TC Braid Shields (60% and 40% Coverage)																			
Plenum • Foam FEP Teflon Insulation • Snow Beige FEP Jacket																			
200°C	**1153A**	NEC: CMP CL2P CEC: CMP FT6	500 1000	152.4 304.8	52.5 106.0	23.9 48.2	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	(2) Duofoil Shields + (2) TC Braids 1.8Ω/M′ 5.9Ω/km	.387	9.83	75	82%	16.2	53.1	1 10 50 100 200 400 700 900 1000	.2 .4 1.2 1.7 2.5 3.5 4.6 5.3 5.6	.7 1.3 3.9 5.6 8.2 11.5 15.1 17.4 18.4
																			
																	Sweep tested 5 MHz to 400 MHz.		

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Duobond IV = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage) + aluminum braid (46% coverage).

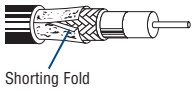
Teflon is a DuPont trademark.

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Broadband Coax

Headend/Video Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
RG-59/U Type • 20 AWG Solid .032″ SPCCS Conductor • Duobond Plus® + Aluminum Braid Shield (95% Coverage)																			
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in 13 colors)*																			
80°C	**9167**	NEC: CATVR CMR CEC: CMG FT4	1000	304.8	27.0	12.3	20 AWG (solid) .032″ SPCCS 25.8Ω/M′ 84.6Ω/km	.144	3.66	Duobond Plus* + 95% Aluminum Braid 4.5Ω/M′ 14.8Ω/km	.242	6.15	75	83%	16.2	53.1	See Chart on page 6.92		
 Shorting Fold																			

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Broadband Coax

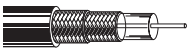
Headend/Video Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

RG-59/U Type • 20 AWG Solid .031″ Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)

Polyethylene Insulation • Polyethylene Jacket (Available in Red, Yellow, Green, Light Blue, White, Orange or Black)

80°C	**8281**	—	500▲	152.4	37.5	17.0	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	1	.3	1.0
			1000	304.8	74.0	33.6											3.6	.5	1.6
																	10.0	.8	2.6
																	71.5	2.1	6.9
																	135	3.0	9.8
																	270	4.3	14.1
																	360	5.1	16.7
																	540	6.3	20.7
																	720	7.4	24.3
																	750	7.6	24.9
																	1000	9.2	30.2



For Plenum version of 8281, see 88281.

▲500 ft. put-up not available in White.
Max operating voltage — Non UL 2900V RMS

Flame-retardant Semi-foam Polyethylene Insulation • PVC Jacket (Available in 9 colors)♦

UL AWM Style 1354 (30V 80°C)	**8281B**	NEC: CMR CEC: CMG FT4	1000	304.8	84.0	38.1	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	1	.3	1.0
																	3.6	.5	1.6
																	10.0	.8	2.6
																	71.5	2.1	6.9
																	135	3.0	9.8
																	270	4.4	14.4
																	360	5.1	16.7
																	540	6.6	21.7
																	720	7.8	25.6
																	750	8.0	26.2
																	1000	10.2	33.5



For Plenum version of 8281B, see 88281.

♦8281B available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.

22 AWG Stranded (7x29) .031″ Bare Compacted Copper Conductor* • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)

Polyethylene Insulation • PVC Jacket (Matte Red, Blue, Green, Gray or Black)

High-Flex 60°C	**8281F**	—	500◗	152.4	34.5	15.7	22 AWG (7x29) .031″ BCC 12.2Ω/M′ 40.0Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.7Ω/M′ 5.6Ω/km	.305	7.75	75	66%	21.0	68.9	1	.3	.9
			1000	304.8	67.0	30.4											3.6	.5	1.7
																	10.0	.9	3.0
																	71.5	2.5	8.2
																	135	3.6	11.8
																	270	5.1	16.7
																	360	6.0	19.7
																	540	7.4	24.3
																	720	8.7	28.5
																	750	8.9	29.2
																	1000	10.5	34.5



◗500 ft. put-up available in Black only.
Max operating voltage — Non UL 2900V RMS
*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • SPC = Silver-plated Copper • SPCCS = Silver-plated, Copper-covered Steel • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

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DBS Cable
Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper or Bare Copper-covered Steel Conductor (see below) • Duobond® II + Aluminum Braid Shield (60% Coverage)																			
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Black, Gray, White or Neutral)																			
80°C	**1829A**	NEC: CATV CM CEC: CM	U-1000† 1000†	U-304.8 304.8	29.0 29.0	13.2 13.2	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2
†Final put-up length may vary ±10% for spools, ±5% for unreel cartons.																			
80°C	**1829AC**	NEC: CATV CM CEC: CM	U-1000▲ 1000▲	U-304.8 304.8	27.0 27.0	12.3 12.3	18 AWG (solid) .040″ BCAC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250 3000	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8 11.3	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2 37.1
▲U-1000 ft. put-up available in Black, White or Gray only. 1000 ft. available in White or Black only.																			
80°C	**1829R** new	NEC: CATVR, CMR CEC: CMG FT4	U-1000◆	U-304.8	29.0	13.2	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 21.0Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250 3000	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8 11.3	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2 37.1
◆U-1000 ft. put-up not available in Neutral.																			
Gas-injected Foam Polyethylene Insulation • Black Polyethylene Jacket																			
Burial 80°C CoreGuard®	**1829B**	—	1000	304.8	26.0	11.8	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2
Burial 80°C CoreGuard®	**1829BC**	—	1000	304.8	27.0	12.3	18 AWG (solid) .040″ BCAC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250 3000	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8 11.3	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2 37.1
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
75°C	**1829P** new	NEC: CATVP, CMP CEC: CMP FT6	U-1000 1000	U-304.8 304.8	27.0 27.0	12.3 12.3	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.235	5.97	75	83%	16.3	53.4	1 10 50 100 200 400 700 900 1000 1450 1800 2250 3000	.3 .7 1.5 2.1 3.0 4.4 6.1 7.2 7.6 9.6 11.0 12.7 15.1	1.0 2.2 4.9 6.9 9.8 14.4 20.0 23.6 24.9 31.5 36.1 41.7 49.5

BC = Bare Copper • BCAC = Bare Copper Anti-corrosion • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

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DBS Cable
Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper or Bare Copper-covered Steel Conductor (see below) • Duobond® II + AL Braid Shield (60% Coverage) *(cont'd)*																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**1839A**	—	1000	304.8	40.0	18.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270 x .405	6.86 x 10.29	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2
.045″ (1.14mm) copper-covered steel, static ground.																			
80°C	**1840A**	—	500 1000	152.4 304.8	37.5 74.0	17.0 33.6	18 AWG (solid) .040″ BCAC 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.273 x .703	6.93 x 17.86	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2
.045″ (1.14mm) copper-covered steel static ground.																			
80°C	**1841A**	NEC: CATV CM CEC: CM	1000	304.8	66.0	30.0	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.273 x .595	6.93 x 15.11	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Black, Gray or White)																			
80°C	**1839AC**	—	1000▲	304.8	44.0	20.0	18 AWG (solid) .040″ BCAC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270 x .405	6.86 x 10.29	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250 3000	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8 11.3	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2 37.1
▲1000 ft. put-up not available in White. .045″ (1.14mm) copper-covered steel static ground.																			
80°C	**1840AC**	—	500	152.4	38.0	17.2	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.273 x .703	6.93 x 17.86	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250 3000	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8 11.3	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2 37.1
.045″ (1.14mm) copper-covered steel static ground.																			
80°C	**1841AC**	NEC: CATV CM CEC: CM	500	152.4	32.5	14.7	18 AWG (solid) .040″ BCAC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.273 x .595	6.93 x 15.11	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250 3000	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8 11.3	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2 37.1

AL = Aluminum • BC = Bare Copper • BCAC = Bare Copper Anti-corrosion • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

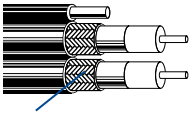
*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DBS Cable

Series 6

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Duobond® II + Aluminum Braid Shield (60% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black Polyethylene Jacket																			
Burial 80°C	**1843A**	—	1000	304.8	64.0	29.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.273 x .750	6.93 x 19.05	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2
 CoreGuard®																			
.045″ (1.14mm) copper-covered steel static ground. Suitable for Outdoor and Direct Burial applications.																			
HDTV Series 6 • 18 AWG Solid .040″ Bare Copper Conductor • Duobond + Aluminum Braid Shields (77% and 80% Coverage)																			
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Black or White)																			
80°C	**7915A**	NEC:	U-500	U-152.4	16.5	7.5	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duobond Plus®* 77% & 80% Aluminum Braids 4.6Ω/M′ 15.1Ω/km	.275	6.99	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2
		CATV CM	500	152.4	18.0	8.2													
		CEC:	U-1000	U-304.8	32.0	14.5													
		CM	1000	304.8	32.0	14.5													
 Shorting Fold											Sweep tested 950 MHz to 2.25 GHz.								
Series 6 • 18 AWG Solid .040″ Bare Copper Conductor • Duobond + Aluminum Braid Shields (60% and 40% Coverage)																			
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Black or White)																			
	7916A	NEC:	U-500	U-152.4	18.5	8.4	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duobond IV* 60% & 40% Aluminum Braids 4.8Ω/M′ 15.7Ω/km	.298	7.57	75	83%	16.2	53.1	5 55 211 500 750 862 1000 1450 1800 2250	.5 1.4 2.6 4.1 5.1 5.5 6.0 7.8 8.6 9.8	1.6 4.6 8.5 13.5 16.7 18.0 19.7 25.6 28.2 32.2
		CATV CM	500	152.4	19.5	8.9													
		CEC:	U-1000	U-304.8	36.0	16.3													
		CM	1000	304.8	35.0	15.9													

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).
Duobond Plus = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage) + shorting fold.
Duobond IV = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage) + aluminum braid (46% coverage).

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Standard Analog Video Cable

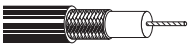
75 Ohm Miniature Coax

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

30 AWG Stranded (7x38) .012″ Tinned Copper Conductor • Tinned Copper Braid Shield (89% Coverage)

Foam HDPE Insulation • Black PVC Jacket



UL AWM Style 1375 (30V 60°C) — **9221** — 100 / U-500 / 500 (Ft.); 30.5 / U-152.4 / 152.4 (m); 1.5 / 4.0 / 4.0 (Lbs.); .7 / 1.8 / 1.8 (kg); 30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km; .058 (Core OD Inch); 1.47 (Core OD mm); TC Braid 89% Shield Coverage 11.7Ω/M′ 38.4Ω/km; .097 (OD Inch); 2.46 (OD mm); 75 (Imp.); 78% (Vel. of Prop.); 17.3 (pF/Ft.); 56.8 (pF/m)

MHz	dB/ 100 Ft.	dB/ 100m
1	.7	2.3
3.6	1.3	4.3
4	1.3	4.3
5	1.6	5.2
7	1.9	6.2
9	2.1	6.9
10	2.2	7.2
50	5.1	16.7
70	6.1	20.0
100	7.3	23.9
200	10.5	34.4
400	15.5	50.9
700	21.5	70.5
900	24.8	81.4
1000	26.6	87.3

27 AWG Stranded (7x35) .017″ Bare Copper-covered Steel Conductor • Tinned Copper Braid Shield (93% Coverage)

Polyethylene Insulation • Black PVC Jacket



UL AWM Style 1354 (30V 60°C) — **8218** — U-500 / 500 / U-1000 / 1000 (Ft.); U-152.4 / 152.4 / U-304.8 / 304.8 (m); 8.5 / 8.0 / 16.0 / 14.0 (Lbs.); 3.8 / 3.6 / 7.3 / 6.4 (kg); 27 AWG (7x35) .017″ BCCS 120.0Ω/M′ 393.7Ω/km; .100 (Core OD Inch); 2.54 (Core OD mm); TC Braid 93% Shield Coverage 5.7Ω/M′ 18.7Ω/km; .150 (OD Inch); 3.81 (OD mm); 75 (Imp.); 66% (Vel. of Prop.); 20.5 (pF/Ft.); 67.3 (pF/m)

MHz	dB/ 100 Ft.	dB/ 100m
1	1.2	3.9
10	2.4	7.9
50	4.2	13.8
100	5.7	18.7
200	8.3	27.2
400	12.1	39.7
700	16.5	54.1
900	19.0	62.3
1000	20.0	65.6

Miniature • 25 AWG Solid .018″ Tinned Copper Conductors • Duobond® (100% Coverage) + TC Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Black PVC Jacket



1281R new — NEC: CMR CEC: CMG — 1 / 1000 / 304.8 (Ft. / m); 8.0 / 3.6 (Lbs. / kg); 25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km; .074 (Core OD Inch); 1.88 (Core OD mm); Duobond (100%) + 95% TC Braid 5.4Ω/M′ 17.7Ω/km; .114 (OD Inch); 2.90 (OD mm); 75 (Imp.); 80% (Vel. of Prop.); 17.0 (pF/Ft.); 55.8 (pF/m)

Sweep Tested 5 MHZ to 850 MHz.
Guaranteed Return Loss –20dB Max.
See page 6.48 for Bundled versions.

MHz	dB/ 100 Ft.	dB/ 100m
1	.5	1.7
5	1.2	3.8
50	3.7	12.1
100	4.9	16.1
200	6.7	22.0
400	9.5	31.2
700	13.4	44.0
900	15.0	49.2
1000	15.8	51.8
3000	31.2	102.4

Plenum • FPFA Insulation • Black Flamarrest® Jacket



1282P new — NEC: CMP CEC: CMP FT6 — 1 / 1000 / 304.8 (Ft. / m); 10.0 / 4.5 (Lbs. / kg); 25 AWG (solid) .018″ TC 31.8Ω/M′ 104.3Ω/km; .074 (Core OD Inch); 1.88 (Core OD mm); Duobond (100%) + 95% TC Braid 5.8Ω/M′ 19.0Ω/km; .114 (OD Inch); 2.90 (OD mm); 75 (Imp.); 81% (Vel. of Prop.); 17.0 (pF/Ft.); 55.8 (pF/m)

Sweep Tested 5 MHZ to 850 MHz.
Guaranteed Return Loss –20dB Max.
See page 6.48 for Bundled versions.

MHz	dB/ 100 Ft.	dB/ 100m
1	.4	1.3
5	.9	3.0
50	3.7	12.1
100	5.0	16.4
200	7.0	23.0
400	10.0	32.8
700	14.5	47.6
900	17.0	55.8
1000	17.5	57.4
3000	37.0	121.4

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper

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Standard Analog Video Cable

RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
23 AWG Solid .023″ Bare Copper or Bare Copper-covered Steel Conductor (see below) • Bare Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 75°C) VW-1	**8241**	NEC: CM	100	30.5	4.4	2.0	23 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.240	6.10	75	66%	20.5	67.3	1	.6	2.0
			U-500	U-152.4	19.5	8.9											10	1.1	3.6
			500	152.4	18.5	8.4											50	2.4	7.9
			U-1000▲	U-304.8	38.0	17.2											100	3.4	11.2
			1000	304.8	40.0	18.1					For Plenum versions of 8241, see 88241 or 82241.						200	4.9	16.1
			2000	609.6	80.0	36.3											400	7.0	23.0
			5000	1524.0	200.0	90.7											700	9.7	31.8
																	900	11.1	36.4
																	1000	12.0	39.4
▲U-1000 ft. put-up also available in Red, Yellow, Green, Lt. Blue, White or Orange.																			
Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 75°C)	**8241A**	NEC: CMG CEC: CMG FT4	U-1000 1000	U-304.8 304.8	40.0 42.0	18.1 19.1	23 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	66%	20.5	67.3	1	.6	2.0
																	5	.9	3.0
																	10	1.1	3.6
																	50	2.4	7.9
																	100	3.4	11.2
																	200	4.9	16.1
																	400	7.0	23.0
																	700	10.1	33.1
																	900	11.7	38.4
Suitable for Indoor and Outdoor applications.																	1000	13.2	43.3
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C)	**8241B**	NEC: CM CEC: CM	U-1000 1000	U-304.8 304.8	36.0 37.0	16.3 16.8	23 AWG (solid) .023″ BC 20.4Ω/M′ 66.9Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.242	6.15	75	66%	20.5	67.3	1	.4	1.3
																	10	1.1	3.6
																	50	2.4	7.9
																	100	3.4	11.2
																	200	4.9	16.1
																	400	7.0	23.0
																	700	9.7	31.8
																	900	11.1	36.4
Suitable for Indoor and Outdoor applications.																	1000	12.0	39.4
22 AWG Stranded (7x30) .030″ Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)																			
Foam Polyethylene Insulation • PVC Jacket (Available in Matte Black, Red, Blue, Green, White, Gray or Yellow)																			
High-Flex 60°C	**8241F**	—	1000	304.8	35.0	15.9	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	78%	17.3	56.8	1	.3	1.0
																	10	.9	3.0
																	50	2.1	6.9
																	100	3.0	9.8
																	200	4.5	14.8
																	400	6.6	21.7
																	700	8.9	29.2
																	900	10.1	33.1
																	1000	10.9	35.8
23 AWG Solid .023″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (97% Coverage)																			
Plenum • FEP Insulation • Black FEP Jacket																			
200°C	**88241**	NEC: CMP CEC: CMP FT6	500†	152.4	18.0	8.2	23 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.132	3.35	BC Braid 97% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.190	4.83	75	69.5%	19.5	64.0	1	.5	1.6
			1000†	304.8	36.0	16.3											10	1.0	3.3
																	50	2.3	7.5
																	100	3.3	10.8
											For Non-Plenum version of 88241, see 8241.						200	5.2	17.1
																	400	8.4	27.6
																	700	11.6	38.0
																	900	13.8	45.3
Suitable for Outdoor and Direct Burial applications.																	1000	14.8	48.6
Plenum • FEP Insulation • Natural Flamarrest® Jacket																			
75°C	**82241**	NEC: CMP CEC: CMP FT6	U-500†	U-152.4	18.5	8.4	23 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.134	3.35	BC Braid 97% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.190	4.83	75	69.5%	19.5	64.0	1	.5	1.6
			U-1000†	U-304.8	36.0	16.3											10	1.0	3.3
			1000†	304.8	34.0	15.4											50	2.3	7.5
																	100	3.3	10.8
											For Non-Plenum version of 82241, see 8241.						200	5.2	17.1
																	400	8.4	27.6
																	700	11.6	38.0
																	900	13.8	45.3
																	1000	14.8	48.6

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

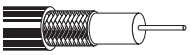
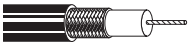
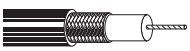
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Standard Analog Video Cable

RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
22 AWG Solid Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 60°C)	**8263**	NEC: CMX CEC: CMX	U-500 U-1000 1000	U-152.4 U-304.8 304.8	19.5 38.0 39.0	8.9 17.2 17.7	22 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	.6 1.1 2.4 3.4 4.9 7.0 9.7 11.1 12.0	2.0 3.6 7.9 11.2 16.1 23.0 31.8 36.4 39.4
																			
Non-contaminating Black PVC Jacket. Suitable for Indoor and Outdoor applications.																			
Foam Polyethylene Insulation • Black PVC Jacket																			
75°C	**8221**	—	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	18.5 17.0 36.0 37.0	8.4 7.7 16.3 16.8	22 AWG (solid) .025″ BCCS 50.0Ω/M′ 164.0Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	80	78%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.4 .9 2.0 2.9 4.1 5.9 7.8 8.8 9.9	1.4 3.0 6.6 9.5 13.5 19.4 25.6 28.9 32.5
																			
Suitable for Outdoor and Aerial applications when supported by a Messenger Wire.																			
22 AWG Solid Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (85% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C)	**9244**	NEC: CMX CEC: CMX	U-500 U-1000 1000 3280	U-152.4 U-304.8 304.8 1000.0	18.0 35.0 36.0 118.1	8.2 15.9 16.3 53.8	22 AWG (solid) .025″ BCCS 50.0Ω/M′ 164.0Ω/km	.146	3.71	BC Braid 85% Shield Coverage 4.5Ω/M′ 14.8Ω/km	.242	6.15	75	66%	19.4	63.6	1 10 50 100 200 400 700 900 1000	.6 1.1 2.4 3.4 4.9 7.0 9.7 11.1 12.0	2.0 3.6 7.9 11.2 16.1 23.0 31.8 36.4 39.4
											100% Sweep tested. 5 MHz to 450 MHz.								
Suitable for Indoor and Outdoor applications.																			
22 AWG Stranded (7x30) .030″ Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)																			
Foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 60°C) VW-1	**9659**	NEC: CMX CEC: CMX	U-500 U-1000 1000	U-152.4 U-304.8 304.8	19.0 37.0 38.0	8.6 16.8 17.2	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 8.9 10.1 10.9	1.0 3.0 6.9 9.8 14.8 21.7 29.2 33.1 35.8
											100% Sweep tested. 5 MHz to 450 MHz.								
Non-contaminating PVC Jacket. For CCTV applications. Suitable for Indoor and Outdoor applications.																			
UL AWM Style 1354 (30V 80°C)	**9259**	NEC: CM CEC: CM	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.1 18.0 16.5 35.0 37.0	1.9 8.2 7.5 15.9 16.8	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.241	6.12	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 8.9 10.1 10.9	1.0 3.0 6.9 9.8 14.8 21.7 29.2 33.1 35.8
											For Plenum versions of 9259, see 89259 or 82259.								
For CCTV applications. Suitable for Indoor and Outdoor applications.																			
Plenum • Foam FEP Insulation • Black FEP Jacket																			
200°C	**89259**	NEC: CMP CEC: CMP FT6	100† 500† 1000†	30.5 152.4 304.8	5.1 16.0 32.0	2.3 7.3 14.5	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.135	3.43	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.193	4.90	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 9.0 10.1 11.0	1.0 3.0 6.9 9.8 14.8 21.7 29.5 33.1 36.1
																			
Suitable for Outdoor and Direct Burial applications. †Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.																			
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
75°C	**82259**	NEC: CMP CEC: CMP FT6	U-1000 1000	U-304.8 304.8	31.0 30.0	14.1 13.6	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.135	3.43	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.193	4.90	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 9.0 10.1 11.0	1.0 3.0 6.9 9.8 14.8 21.7 29.5 33.1 36.1
																			

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

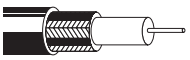
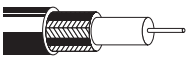
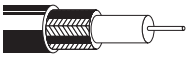
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Standard Analog Video Cable

RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
20 AWG Solid .032″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (80% Coverage)																			
Foam Polyethylene Insulation • Black PVC Jacket																			
75°C 	**9240**	—	1000	304.8	31.0	14.1	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.143	3.63	BC Braid 80% Shield Coverage 5.6Ω/M′ 18.4Ω/km	.241	6.12	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.6 1.0 2.1 3.0 4.5 6.6 8.9 10.1 10.9	2.0 3.3 6.9 9.8 14.8 21.7 29.2 33.1 35.8
											100% Sweep tested. 5 MHz to 850 MHz.								
Suitable for Outdoor applications.																			
20 AWG Solid .032″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)																			
Foam Polyethylene Insulation • Black Polyethylene Jacket																			
80°C 	**8212**	—	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	16.5 15.0 31.0 33.0	7.5 6.8 14.1 15.0	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.143	3.63	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.6 1.0 2.1 3.0 4.5 6.6 8.9 10.1 10.9	2.0 3.3 6.9 9.8 14.8 21.7 29.2 33.1 35.8
Suitable for Outdoor and Aerial applications when supported by a Messenger Wire.																			
Foam Polyethylene Insulation • Black PVC Jacket																			
80°C 	**9274**	NEC: CM CEC: CM	500 1000	152.4 304.8	15.5 35.0	7.0 15.9	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.143	3.63	BC Braid 95% Shield Coverage 3.5Ω/M′ 11.5Ω/km	.240	6.10	75	82%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.6 1.0 2.1 3.0 4.5 6.6 8.9 10.1 10.9	2.0 3.3 6.9 9.8 14.8 21.7 29.2 33.1 35.8
											100% Sweep tested. 5 MHz to 450 MHz.								
Suitable for Outdoor applications.																			
20 AWG Solid .032″ Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 75°C) 	**1426A**	NEC: CM	U-1000	U-304.8	35.0	15.9	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145	3.68	BC Braid 95% Shield Coverage 2.6Ω/M 8.5Ω/km	.242	6.15	75	83%	16.3	53.5	1 5 10 50 100 200 400 700 900 1000	.3 .7 .9 1.9 2.6 3.6 5.0 7.0 8.0 8.5	1.0 2.1 3.0 6.2 8.5 11.8 16.4 23.0 26.3 27.9

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

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Standard Analog Video Cable

RG-6/U Type

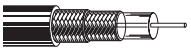
BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

21 AWG Solid .028″ Bare Copper-covered Steel Conductor • Double Bare Copper Braid Shields (98% Coverage)

Polyethylene Insulation • Black Polyethylene Jacket

MATV Cable 80°C	**8215**	—	1000	304.8	74.0	33.6	21 AWG (solid) .028″ BCCS 32.0Ω/M′ 105.0Ω/km	.185	4.70	(2) BC Braids 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.332	8.43	75	66%	20.5	67.2	1 10 50 100 200 400 700 900 1000	.4 .8 1.9 2.7 4.1 5.9 8.1 9.4 9.8	1.3 2.6 6.2 8.9 13.4 19.4 26.6 30.8 32.1



100% Sweep tested. 5 MHz to 450 MHz.

18 AWG Solid .037″ Bare Copper Conductor • Double Bare Copper Braid Shields (98% Coverage)

Foam Polyethylene Insulation • Black PVC Jacket

80°C	**9290**	NEC: CM	1000	304.8	59.0	26.8	18 AWG (solid) .037″ BC 7.5Ω/M′ 24.6Ω/km	.180	4.57	(2) BC Braids 98% Shield Coverage 2.0Ω/M′ 7.5Ω/km	.288	7.32	75	81%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.2 .7 1.7 2.5 3.6 5.3 7.2 8.3 8.8	.7 2.3 5.6 8.2 11.8 17.4 23.6 27.2 28.9
		CEC: CM	2000	609.6	118.0	53.6													



100% Sweep tested. 5 MHz to 450 MHz.

Suitable for Indoor and Outdoor applications.

18 AWG Solid .040″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)

Plenum • Foam FEP Insulation • Black FEP Jacket

200°C	**89248**	NEC: CMP	500†	152.4	15.0	6.8	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.170	4.32	Duofoil + 65% TC Braid 5.1Ω/M′ 16.7Ω/km	.222	5.64	75	82%	16.5	50.3	1 10 50 100 200 400 700 900 1000	.3 .66 1.5 2.1 3.1 4.5 6.0 6.9 7.3	1.0 2.2 4.9 6.9 10.2 14.8 19.7 22.6 23.9
		CEC: CMP FT6	1000†	304.8	33.0	15.0													
			2000†	609.6	64.0	29.0													



100% Sweep tested. 5 MHz to 450 MHz.

Suitable for Outdoor and Direct Burial applications.

Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

75°C	**82248**	NEC: CMP	U-1000†	U-304.8	29.0	13.2	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.170	4.32	Duofoil + 65% TC Braid 5.1Ω/M′ 16.7Ω/km	.222	5.64	75	82%	16.5	50.3	1 10 50 100 200 400 700 900 1000	.3 .7 1.6 2.2 3.0 4.6 6.6 7.7 8.2	1.0 2.3 5.2 7.2 9.8 15.1 21.6 25.3 26.9
		CEC: CMP FT6	1000†	304.8	31.0	14.1													

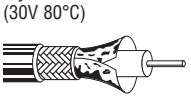


100% Sweep tested. 5 MHz to 450 MHz.

18 AWG Solid .040″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (60% Coverage)

Gas-injected Foam HDPE Insulation • Black PVC Jacket

UL AWM Style 1354 (30V 80°C)	**9248**	NEC: CM	U-500	U-152.4	16.5	7.5	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duofoil + 60% TC Braid 5.6Ω/M′ 18.4Ω/km	.270	6.86	75	82%	16.2	53.1	1 10 50 100 200 400 700 900 1000 1500	.3 .7 1.5 2.0 2.8 4.0 5.3 6.1 6.5 8.3	1.0 2.3 4.9 6.6 9.2 13.1 17.4 20.0 21.3 27.2
		CEC: CM	500	152.4	15.0	6.8													
			U-1000	U-304.8	32.0	14.5													
			1000	304.8	33.0	15.0													
			1640	500.0	55.8	25.3													
			3280	1000.0	108.2	49.2													



For Plenum versions of 9248, see 89248 or 82248.

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

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Standard Analog Video Cable

RG-6/U and RG-11/U Types

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-6/U • 18 AWG Stranded (7x26) .048″ Tinned Copper Conductor • Bare Copper Braid Shield (97% Coverage)																			
Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**8238**	NEC: CM CEC: CM	500 1000	152.4 304.8	59.0 117.0	26.8 53.1	18 AWG (7x26) .048″ TC 6.1Ω/M′ 20.0Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.2Ω/M′ 3.9Ω/km	.405	10.29	75	67%	20.5	67.2	1 10 50 100 200 400 700 900 1000	.2 .7 1.3 2.0 2.9 4.2 5.8 6.8 7.1	.6 2.2 4.3 6.6 9.5 13.8 19.0 22.3 23.3
Suitable for Indoor and Outdoor applications.																			
Polyethylene Insulation • Black PVC Jacket																			
60°C VW-1	**8261**	CEC: CXC	500 1000	152.4 304.8	52.5 104.0	23.9 47.3	18 AWG (7x26) .048″ TC 6.1Ω/M′ 20.0Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.2Ω/M′ 3.9Ω/km	.405	10.29	75	66%	20.5	67.2	1 10 50 100 200 400 700 900 1000	.2 .7 1.3 2.0 2.9 4.2 5.8 6.8 7.1	.6 2.2 4.3 6.6 9.5 13.8 19.0 22.3 23.3
Suitable for Indoor and Outdoor applications.																			
Composite • Coax: 18 AWG Solid BC Cond. w/BC Braid Shield (95% Coverage) • **Power: 18 AWG** Stranded (7x26) BC Conductor UTP																			
Foam Polyethylene Insulation (Coax) • **Polypropylene Insulation** (Pair) • **Black Low-Smoke, Zero-Halogen Jacket**																			
Siamese 300V RMS	**1306SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	500 1000	152.4 304.8	37.0 76.0	16.8 34.5	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	Coax: .180 Pair: .059 (Color Code: Black & Red)	4.57 1.59	Coax: 95% BC Braid 3.1Ω/M′ 10.2Ω/km	.275 x .514	6.99 x 13.06	75	83%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.2 .6 1.5 2.1 3.0 4.3 5.8 6.7 7.1	.7 2.1 4.8 6.9 9.8 14.1 19.0 22.0 23.3
RG-11/U • 14 AWG Solid .064″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (60% Coverage)																			
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
80°C	**9292**	—	1000	304.8	75.0	34.0	14 AWG (solid) .064″ BC 2.6Ω/M′ 8.5Ω/km	.280	7.11	Duofoil + 60% TC Braid 3.0Ω/M′ 9.8Ω/km	.405	10.29	75	84%	16.1	52.8	1 10 50 100 200 400 700 900 1000	.2 .5 .9 1.3 1.6 2.3 3.3 4.0 4.3	.6 1.6 3.0 4.3 5.3 7.6 10.8 13.1 14.1
											For Plenum versions of 9292, see 89292. 100% Sweep tested. 5 MHz to 450 MHz.								
Suitable for Indoor and Outdoor applications.																			
RG-11/U • 14 AWG Solid .064″ Bare Copper Conductor • Duofoil (100% Coverage) + Tinned Copper Braid Shield (63% Coverage)																			
Plenum • Foam FEP Insulation • Black FEP Jacket																			
200°C	**89292**	NEC: CMP CATVP CEC: CMP FT6	500 1000	152.4 304.8	40.5 81.0	18.4 36.7	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.274	6.96	Duofoil + 63% TC Braid 3.0Ω/M′ 9.8Ω/km	.346	8.79	75	83%	16.2	53.1	1 10 50 100 200 400 700 900 1000	.2 .4 1.0 1.5 2.2 3.3 4.5 5.2 5.5	.5 1.3 3.3 4.9 7.2 10.8 14.8 17.1 18.0
											100% Sweep tested. 5 MHz to 450 MHz.								
RG-11/U • 14 AWG Solid .064″ Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)																			
Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**8213**	—	500 1000 2000	152.4 304.8 609.6	44.0 87.0 172.0	20.0 39.5 78.2	14 AWG (solid) .064″ BC 2.6Ω/M′ 8.5Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.405	10.29	75	84%	16.1	52.8	1 10 50 100 200 400 700 900 1000	.2 .4 .9 1.3 1.9 2.9 4.1 4.8 5.2	.6 1.1 3.0 4.3 6.2 9.5 13.5 15.7 17.1
											100% Sweep tested. 5 MHz to 450 MHz.								
Suitable for Indoor and Outdoor applications.																			

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

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Precision Video Cable for Analog and Digital

Sub-Miniature RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

25 AWG Stranded (19x37) .021″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*

75°C	**1865A**	NEC: CMR	1000	304.8	14.0	6.4	25 AWG (19x37) .021″ BC 27.4Ω/M′ 89.9Ω/km	.094	2.39	Duofoil + 95% TC Braid 5.4Ω/M′ 17.7Ω/km	.150	3.81	75	82%	16.5	54.1	1	.5	1.5
		CEC: CMG FT4															3.6	1.0	3.1
																	10	1.6	5.2
																	71.5	3.7	12.1
																	135	5.0	16.4
																	270	7.1	23.3
																	360	8.2	26.9
											100% Sweep tested. 5 MHz to 3 GHz.						540	10.1	33.1
																	720	11.8	38.7
																	750	12.0	39.4
																	1000	13.9	45.6
																	1500	17.0	55.8
																	2250	20.8	68.2
																	3000	24.0	78.7

23 AWG Solid .023″ Bare Copper Conductor • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*

SDI/HDTV Digital Video 75°C	**1855A**	NEC: CMR	500▲ 1000	152.4 304.8	9.0 16.0	4.1 7.3	23 AWG (solid) .023″ BC 20.1Ω/M′ 65.9Ω/km	.102	2.59	Duofoil + 95% TC Braid 7.6Ω/M′ 24.9Ω/km	.159	4.03	75	82%	16.3	53.5	1	.4	1.3
		CEC: CMG FT4															3.6	.8	2.6
																	10	1.2	3.9
																	71.5	3.1	10.0
																	135	3.8	12.5
																	270	5.4	17.7
											Also available in multiples, bundled. See 7787A through 7792A.						360	6.2	20.3
																	540	7.7	25.3
											100% Sweep tested. 5 MHz to 3 GHz.						720	9.5	31.1
																	750	9.6	31.5
																	1000	10.5	34.4
																	1500	13.0	42.6
																	2250	16.0	52.5
																	3000	18.5	60.7

▲500 ft. put-up available in Black only.

BC = Bare Copper • DCR = DC Resistance • HDPE = Foam High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Precision Video Cable for Analog and Digital

RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
23 AWG Stranded (7x32) .023″ Bare Compacted Copper* • Tinned Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Polyethylene Jacket																			
80°C 	**8279**	—	500 1000	152.4 304.8	13.0 29.0	5.9 13.2	23 AWG (7x32) .023″ BCC 19.1Ω/M′ 62.6Ω/km	.146	3.71	TC + 95% Shield Coverage 4.5Ω/M′ 14.8Ω/km	.220	5.59	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.4 .6 1.2 3.3 4.7 6.8 8.0 9.9 11.6 11.9 13.8	1.1 2.0 3.9 10.8 15.4 22.3 26.2 32.5 38.0 39.0 45.3
											100% Sweep tested.								
23 AWG Solid .022″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Polyethylene Jacket																			
80°C 	**9209**	—	U-500 U-1000	U-152.4 U-304.8	15.0 29.0	6.8 13.2	23 AWG (solid) .022″ BC 20.4Ω/M′ 66.9Ω/km	.146	3.71	Duofoil + 95% TC Braid 4.5Ω/M′ 14.8Ω/km	.220	5.59	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.4 .5 1.2 2.9 4.0 5.6 6.6 8.3 9.7 9.9 11.6	1.2 1.8 3.8 9.5 13.0 18.4 21.5 27.2 31.7 32.5 38.0
											100% Sweep tested.								
Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 75°C) 	**9209A**	NEC: CMR CEC: CMG FT4	U-1000	U-304.8	35.0	15.9	23 AWG (solid) .022″ BC 20.4Ω/M′ 66.9Ω/km	.146	3.71	Duofoil + 95% TC Braid 4.5Ω/M′ 14.8Ω/km	.220	5.59	75	66%	20.5	67.2	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.4 .5 1.2 2.9 4.0 5.6 6.6 8.6 10.1 10.4 12.8	1.2 1.8 3.8 9.5 13.0 18.4 21.5 28.3 33.2 34.1 41.9
											100% Sweep tested.								

BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

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Precision Video Cable for Analog and Digital

RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
20 AWG Solid .032″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)♦																			
SDI/HDTV Digital Video 75°C	**1505A**	NEC: CMR CEC: CMG FT4	500▲ 1000 5000▼	152.4 304.8 1524.0	17.0 35.0 165.0	8.0 16.4 74.8	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145	3.68	Duofoil + 95% TC Braid 3.8Ω/M′ 12.5Ω/km	.233	5.92	75	83%	16.3	53.5	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.3 .6 .9 2.1 2.7 3.8 4.4 5.5 6.4 6.5 7.6 9.3 11.6 13.4	1.0 1.8 2.9 6.9 8.9 12.5 14.4 18.0 21.0 21.3 24.9 30.5 38.0 44.0

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Precision Video Cable for Analog and Digital

RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
20 AWG Solid .031″ Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage) *(continued)*																			
Polyethylene Insulation • Clear Polyethylene Jacket																			
Indoor Use 80°C	**9141**	—	1000	304.8	73.0	33.2	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.200	5.06	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	20.0	65.6	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.0 3.5 4.3 5.0 6.2 7.2 7.4 9.1	1.0 1.6 2.6 6.6 11.5 14.1 16.4 20.3 23.6 24.3 29.8
											100% Sweep tested. 5 MHz to 850 MHz.								
20 AWG Solid .031″ Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)																			
Polyethylene Insulation • Polyethylene Jacket (Available in Red, Yellow, Green, Blue, White, Orange or Black)																			
80°C	**8281**	—	500▲ 1000	152.4 304.8	37.5 74.0	17.8 33.6	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.1 3.0 4.3 5.1 6.3 7.4 7.6 9.2	.8 1.8 2.6 6.9 9.8 14.1 16.6 20.7 24.3 24.9 30.2
											For Plenum version of 8281, see 88281.								
											100% Sweep tested. 5 MHz to 850 MHz.								
▲500 ft. put-up not available in White.																			
Flame-retardant Semi-foam Polyethylene Insulation • PVC Jacket (Available in 9 colors)♦																			
UL AWM Style 1354 (30V 80°C)	**8281B**	NEC: CMR CEC: CMG FT4	1000	304.8	84.0	38.1	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.1 3.0 4.4 5.1 6.6 7.8 8.0 10.2	.8 1.8 2.6 6.9 9.8 14.4 16.6 21.5 25.4 26.2 33.5
											For Plenum version of 8281B, see 88281.								
											100% Sweep tested. 5 MHz to 850 MHz.								
♦8281B available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.																			
22 AWG Stranded (7x29) .031″ Bare Compacted Copper Conductor* • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)																			
Polyethylene Insulation • PVC Jacket (Matte Red, Blue, Green, Gray or Black)																			
High-Flex 60°C	**8281F**	—	500◗ 1000	152.4 304.8	34.5 67.0	15.7 30.4	22 AWG (7x29) .031″ BCC 12.2Ω/M′ 40.0Ω/km	.193	4.90	TC Double Braid 98% Shield Coverage 1.7Ω/M′ 5.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .9 2.5 3.6 5.1 6.0 7.4 8.7 8.9 10.5	.9 1.7 2.9 8.0 11.6 16.7 19.7 24.3 28.5 29.2 34.4
											100% Sweep tested. 5 MHz to 850 MHz.								
◗500 ft. put-up available in Black only.																			
20 AWG Solid .032″ Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)																			
Plenum • FEP Insulation • Black Fluorocopolymer Jacket																			
150°C	**88281**	NEC: CMP CEC: CMP FT6	500 1000	152.4 304.8	44.5 86.0	20.2 39.1	20 AWG (solid) .032″ BC 9.9Ω/M′ 32.5Ω/km	.185	4.70	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.271	6.88	75	71%	19.0	62.4	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.2 .5 .8 2.3 3.3 5.1 6.1 8.0 9.7 10.0 12.3	.7 1.6 2.6 7.5 10.8 16.7 20.0 26.2 31.8 32.8 40.3
											100% Sweep tested. 5 MHz to 216 MHz.								
Suitable for Outdoor and Direct Burial applications.																			

BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

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Precision Video Cable for Analog and Digital

RG-6/U and RG-11/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
RG-6/U Type • 18 AWG Solid .040″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*																			
SDI/HDTV Digital Video 75°C	**1694A**	NEC: CMR CEC: CMG FT4	500▲ 1000 4500	152.4 304.8 1371.6	20.5 45.0 202.5	9.3 20.5 91.9	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duofoil + 95% TC Braid 2.8Ω/M′ 9.2Ω/km	.275	6.99	75	82%	16.2	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.2 .5 .7 1.6 2.1 3.0 3.4 4.3 4.9 5.0 5.9 7.3 9.1 10.7	.8 1.5 2.4 5.2 6.9 9.7 11.3 13.9 16.1 16.4 19.3 24.0 30.0 35.0

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Brilliance VideoFLEX® Snake Cable for Precision Analog and Digital Video

Miniature and RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Miniature • 23 AWG Solid .023″ Bare Copper Conductors • Duofoil® (100% Coverage) + TC Braid Shield (95% Coverage)																				
Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)																				
SDI/HDTV Digital Video 75°C **(1855A Bundled)** 	**7787A**	NEC: CMR CEC: CMG FT4	3	500 1000	152.4 304.8	47.5 94.0	21.6 42.7	23 AWG (solid) .023″ BC 20.1Ω/M′ 65.9Ω/km	.102 Coax OD: .159	2.55 4.03	Duofoil + 95% TC Braid 7.6Ω/M′ 24.9Ω/km	.432	10.97	75	83%	16.5	54.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2500 3000	.4 .8 1.2 3.1 3.8 5.4 6.2 7.7 9.1 9.5 10.5 13.0 16.9 18.5	1.3 2.6 3.9 10.0 12.5 17.7 20.3 25.3 29.8 31.2 34.4 42.6 55.4 60.7
	7788A	NEC: CMR CEC: CMG FT4	4	1000	304.8	110.0	49.9	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.481	12.22							
	7789A	NEC: CMR CEC: CMG FT4	5	500 1000	152.4 304.8	73.0 142.0	33.1 64.4	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.539	13.69							
	7790A	NEC: CMR CEC: CMG FT4	6	500 1000	152.4 304.8	88.5 176.0	40.2 79.9	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.597	15.16							
	7791A	NEC: CMR CEC: CMG FT4	10	500 1000	152.4 304.8	155.5 304.0	70.5 137.9	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.796	20.22							
	7792A	NEC: CMR CEC: CMG FT4	12	500 1000	152.4 304.8	178.5 367.0	80.7 166.5	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.825	20.96							
RG-59/U Type • 23 AWG Solid .032″ Bare Copper Conductors • Duofoil (100% Coverage) + TC Braid Shield (95% Coverage)																				
Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)																				
SDI/HDTV Digital Video 75°C **(1505A Bundled)** 	**7794A**	NEC: CMR CEC: CMG FT4	3	500 1000	152.4 304.8	94.5 187.0	43.0 84.8	23 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145 Coax OD: .235	3.68 5.97	Duofoil + 95% TC Braid 3.8Ω/M′ 12.5Ω/km	.631	16.03	75	83%	16.3	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2500 3000	.3 .6 .9 2.1 2.7 3.8 4.4 5.5 6.4 6.5 7.6 9.3 12.4 13.8	1.0 1.8 2.9 6.9 8.9 12.5 14.4 18.0 21.0 21.3 24.9 30.5 40.7 45.3
	7795A	NEC: CMR CEC: CMG FT4	4	500 1000	152.4 304.8	116.5 237.0	53.0 107.7	same as above	.145 Coax OD: .235	3.68 5.97	same as above	.706	17.93							
	7796A	NEC: CMR CEC: CMG FT4	5	500 1000	152.4 304.8	153.0 299.0	69.4 135.6	same as above	.145 Coax OD: .235	3.68 5.97	same as above	.790	20.07							
	7798A	NEC: CMR CEC: CMG FT4	10	500 1000	152.4 304.8	319.5 625.0	145.2 284.1	same as above	.145 Coax OD: .235	3.68 5.97	same as above	1.166	29.62							

Sweep tested 5 MHz to 3 GHz.

Sweep tested 5 MHz to 3 GHz.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

See Connector Reference Guide at www.belden.com for connector recommendations.

Color Code Chart

Cond.	Color	Cond.	Color	Cond.	Color
1	Red	5	Yellow	9	Purple
2	Green	6	Brown	10	Black
3	Blue	7	Orange	11	Pink
4	White	8	Gray	12	Tan

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Brilliance VideoFLEX® Snake Cable for Precision Analog and Digital Video

RG-6/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
RG-59/U • 20 AWG Solid .032″ Bare Copper Conductors • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																				
Plenum • Foam FEP Insulation • Plenum-Grade PVC Jackets (Color Code: See chart below) **• Center Spline • No Overall Jacket**																				
300V RMS	**1283S3** new	NEC: CMP CEC: CMP	3	250 500 1000	76.2 152.4 304.8	26.3 54.0 103.0	11.9 24.5 46.7	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.133	3.38	Duofoil (95%) + TC Braid 3.8Ω/M′ 12.5Ω/km	.422	10.72	75	83%	16.2	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2500 3000	.3 .6 .9 2.1 2.7 3.8 4.4 5.5 6.4 6.5 7.6 9.4 12.4 13.8	1.0 2.0 2.9 6.9 8.9 12.5 14.4 18.0 21.0 21.3 24.9 30.8 40.7 45.3
	1283S5 new	NEC: CMP CEC: CMP	5	250 500 1000	76.2 152.4 304.8	43.5 88.0 174.0	19.7 39.9 78.9	same as above	.133	3.38	same as above	.529	13.44							
	1283S6 new	NEC: CMP CEC: CMP	6	250 500 1000	76.6 152.4 304.8	59.0 108.0 209.0	26.8 49.0 94.8	same as above	.133	3.38	same as above	.588	14.94							

Sweep tested. 5 MHz to 3 GHz.

U.S. Patent 7,049,523

Suitable for Indoor and Outdoor applications.

RG-6/U Type • 18 AWG Solid .040″ Bare Copper Conductors • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)

SDI/HDTV Digital Video 75°C **(1694A Bundled)**	**7710A**	NEC: CMR CEC: CMG FT4	3	500 1000	152.4 304.8	137.5 285.0	62.4 129.3	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180 Coax OD: .275	4.57 6.99	Duofoil + 95% TC Braid 3.0Ω/M′ 9.8Ω/km	.770	19.56	75	82%	16.2	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2500 3000	.2 .5 .7 1.6 2.1 3.0 3.4 4.3 4.9 5.0 5.9 7.3 9.1 10.6	.8 1.5 2.4 5.2 6.9 9.7 11.3 13.9 16.1 16.4 19.3 24.0 31.8 35.0
	7711A	NEC: CMR CEC: CMG FT4	4	500 1000	152.4 304.8	179.5 350.0	81.4 158.8	same as above	.180 Coax OD: .275	4.57 6.99	same as above	.900	22.86							
	7712A	NEC: CMR CEC: CMG FT4	5	500 1000	152.4 304.8	216.5 454.0	98.2 205.9	same as above	.180 Coax OD: .275	4.57 6.99	same as above	.970	24.64							
	7713A	NEC: CMR CEC: CMG FT4	10	500 1000	152.4 304.8	463.0 904.0	210.0 410.4	same as above	.180 Coax OD: .275	4.57 6.99	same as above	1.386	35.20							

Sweep tested 5 MHz to 3 GHz.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.
See Connector Reference Guide at www.belden.com for connector recommendations.

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	6	Brown
2	Green	7	Orange
3	Blue	8	Gray
4	White	9	Purple
5	Yellow	10	Black

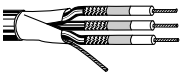
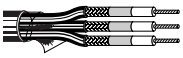
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Bundled RGB Cable

Miniature and High-Flex Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
				Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Miniature • 30 AWG Stranded (7x38) .012″ TC Cond. • Coaxes: Duofoil® (100% Coverage) + TC Braid (90% Cov.) • Overall: Beldfoil® Shield (100% Cov.)																				
Foam HDPE Insulation • Inner PVC Jackets (Color Code: See Chart Below) **• Overall Black PVC Jacket**																				
UL AWM Style 1354 (30V 60°C) 	**1520A**	NEC: CL2	3	500 1000	152.4 304.8	23.0 50.0	10.4 22.7	30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km	.056 Coax OD: .102	1.42 2.59	Coaxes: Duofoil + 90% TC Braid Overall: Beldfoil 9.5Ω/M′ 31.2Ω/km	.283	7.19	75	78%	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	.8 1.5 2.2 4.0 5.4 8.2 12.5 18.9 26.5 30.8 32.8	2.6 4.9 7.2 13.1 17.7 26.9 41.0 62.0 86.9 101.0 107.6
	1521A	NEC: CL2	4	500 1000	152.4 304.8	31.0 60.0	14.1 27.3	same as above	.056 Coax OD: .102	1.42 2.59	same as above	.310	7.87							
	1522A	NEC: CL2	5	500 1000	152.4 304.8	34.5 67.0	15.6 30.4	same as above	.056 Coax OD: .102	1.42 2.59	same as above	.338	8.59							
High-Flex • 26 AWG Stranded (7x34) .019″ Bare Copper Conductors • Duofoil (100% Coverage) + TC Braid Shield (93% Coverage)																				
Foam HDPE Insulation • Inner PVC Jackets (Color Code: See Chart Below) **• Overall Matte Black PVC Jacket**																				
60°C 	**1406B**	—	3	1000	304.8	79.0	35.8	26 AWG (7x34) .019″ BC 41.5Ω/M′ 136.0Ω/km	.090 Coax OD: .146	2.29 3.71	Duofoil + 93% TC Braid 8.6Ω/M′ 28.2Ω/km	.388	9.86	75	78%	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	.6 1.3 1.8 3.1 3.9 5.4 7.5 10.4 13.5 15.2 15.9	2.0 4.3 5.9 10.2 12.8 17.7 24.6 34.1 44.3 49.9 52.2
	1407B	—	4	1000	304.8	100.0	45.5	same as above	.090 Coax OD: .146	2.29 3.71	same as above	.455	11.56							
	1417B	—	5	1000	304.8	110.0	49.9	same as above	.090 Coax OD: .146	2.29 3.71	same as above	.477	12.12							

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Color Code Chart

Cond.	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow

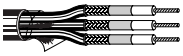
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Bundled RGB Cable

CM, CMR and CMP Rated

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
26 AWG Stranded (7x34) .019″ BC Conductor • Duofoil® (100% Coverage) + TC Braid Shield (93% Coverage) • Overall Polyester Tape																				
Foam HDPE Insulation • Inner PVC Jacket (Color Code: See Chart Below) **• Overall Black PVC Jacket**																				
UL AWM Styles 1354 and 2668 (30V 60°C) 	**1164B**	NEC: CM CEC: CM	3	500 1000	152.4 304.8	38.0 78.0	17.2 35.5	26 AWG (7x34) .019″ BC 41.5Ω/M′ 136.1Ω/km	.090 Coax OD: .146	2.29 3.71	Duofoil + 93% TC Braid 8.6Ω/M′ 28.2Ω/km	.388	9.86	75	78%	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	.6 1.3 1.8 3.1 3.9 5.4 7.5 10.4 13.5 15.2 15.9	2.0 4.3 5.9 10.2 12.8 17.7 24.6 34.1 44.3 49.9 52.2
	1167B	NEC: CM CEC: CM	4	1000	304.8	105.0	47.7	same as above	.090 Coax OD: .146	2.29 3.71	same as above	.455	11.56							
	1418B	NEC: CM CEC: CM	5	500 1000	152.4 304.8	61.5 119.0	27.9 54.0	same as above	.090 Coax OD: .146	2.29 3.71	same as above	.477	12.12							

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	4	White
2	Green	5	Yellow
3	Blue		

25 AWG Solid .018″ Tinned Copper Conductors • Duobond® (100% Coverage) + Tinned Copper Interlocked Serve Shield (95% Coverage)

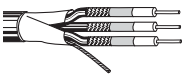
FPFA Insulation • Inner PVC Jacket (Color Code: See chart below) **• Overall Black PVC Jacket**																				
300V RMS 60°C 	**1277R** new	NEC: CMR CEC: CMG	3	500† 1000†	152.4 304.8	25.5 48.0	11.6 21.8	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.074 Coax OD: .114	1.88 2.90	Duobond + 95% TC Braid 5.4Ω/M′ 17.7Ω/km	.320	8.13	75	80%	17.0	55.8	1 5 50 100 200 400 750 900 1000 3000	.5 1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8 31.2	1.7 3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8 102.4
	1278R new	NEC: CMR CEC: CMG	4	250 500† 1000†	76.2 152.4 304.8	21.8 31.5 60.0	9.9 14.3 27.2	same as above	.074 Coax OD: .114	1.88 2.90	same as above	.351	8.92							
	1279R new	NEC: CMR CEC: CMG	5	500† 1000†	152.4 304.8	40.5 80.0	18.4 36.3	same as above	.074 Coax OD: .114	1.88 2.90	same as above	.403	10.24							
	1280R new	NEC: CMR CEC: CMG	6	500† 1000†	152.4 304.8	44.0 87.0	20.0 39.5	same as above	.074 Coax OD: .114	1.88 2.90	same as above	.423	10.74							

100% Sweep tested. 5 MHz to 850 MHz.

See page 6.34 for single coax versions.

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

Plenum • FPFA Insulation • Inner Fluorocopolymer Jacket (Color Code: See chart below) **• Overall Gray PVC Jacket**																				
300V RMS 60°C 	**1277P** new	NEC: CMP CEC: CMP	3	500 1000	152.4 304.8	19.0 41.0	9.8 19.5	25 AWG (solid) .018″ TC 34.0Ω/M′ 11.6Ω/km	.074 Coax OD: .111	1.91 2.92	Duobond + 95% TC Braid 5.4Ω/km 17.7Ω/km	.276	7.01	75	81%	16.8	55.1	1 5 50 100 200 400 750 1000	.5 1.2 3.8 5.2 7.1 10.0 14.3 16.9	1.6 3.9 12.5 17.1 23.3 32.8 46.9 55.4
	1278P new	NEC: CMP CEC: CMP	4	500 1000	152.4 304.8	27.0 52.0	12.7 24.1	same as above	.074 Coax OD: .111	1.91 2.92	same as above	.304	7.72							
	1279P new	NEC: CMP CEC: CMP	5	250 500 1000	76.2 152.4 304.8	19.0 34.0 68.0	8.6 15.9 31.3	same as above	.074 Coax OD: .111	1.91 2.92	same as above	.335	8.51							
	1280P new	NEC: CMP CEC: CMP	6	500 1000	152.4 304.8	39.0 79.0	17.7 35.9	same as above	.074 Coax OD: .111	1.91 2.92	same as above	.369	9.37							

100% Sweep tested. 5 MHz to 850 MHz.

See page 6.34 for single coax versions.

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

BC = Bare Copper • DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.
Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.

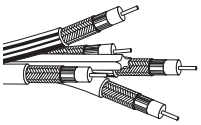
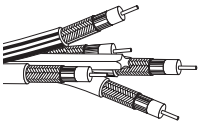
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Bundled RGB Cable

Banana Peel® Unjacketed Bundles Mini Hi-Res Component Video
CMR and CMP Rated

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Miniature • 25 AWG Solid .018″ TC Conductors • Duobond® (100% Coverage) + TC Interlocked Serve Shield (95% Coverage)																				
Gas-injected Foam HDPE Insulation • PVC Jackets (Color Code: See chart below) • **Center Spline • No Overall Jacket**																				
	**1281S3** new	NEC: CMR CEC: CMG	3	500† 1000†	152.4 304.8	17.0 31.0	7.7 14.1	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.074	1.88	Duobond (100%) + TC Serve (95%) 5.4Ω/M′ 17.7Ω/km	Single: .114 Overall: .246	2.90 6.25	75	80%	17.0	55.8	1 5 50 100 200 400 750 900 1000 3000	.52 1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8 31.2	1.7 3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8 102.4
	1281S4 new	NEC: CMR CEC: CMG	4	500† 1000†	152.4 304.8	23.5 44.0	10.7 20.0	same as above	.074	1.88	same as above	Single: .114 Overall: .275	2.90 6.99							
	1281S5 new	NEC: CMR CEC: CMG	5*	250† 500† 1000†	76.2 152.4 304.8	16.0 28.5 55.0	7.3 12.9 25.0	same as above	.074	1.88	same as above	Single: .114 Overall: .308	2.90 7.82							
	1281S6 new	NEC: CMR CEC: CMG FT4	6*	500† 1000†	152.4 304.8	33.5 68.0	15.2 30.8	same as above	.074	1.88	same as above	Single: .114 Overall: .342	2.90 8.69							
Plenum • FPFA • Flamarrest® Jackets (Color Code: See chart below) • **Center Spline • No Overall Jacket**																				
	**1282S3** new	NEC: CMP CEC: CMP	3	500 1000	152.4 304.8	18.5 34.0	8.4 15.4	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.075	1.91	Duobond (100%) + TC Serve (95%) 5.4Ω/M′ 17.7Ω/km	Single: .114 Overall: .246	2.90 6.25	75	81%	16.8	55.1	1 5 50 100 200 400 750 1000 2250 3000	.50 1.2 3.8 5.2 7.1 10.0 14.3 16.9 25.5 33.9	1.6 3.9 12.1 17.1 23.1 32.9 47.0 55.4 83.6 111.3
	1282S4 new	NEC: CMP CEC: CMP	4	500 1000	152.4 304.8	25.5 49.0	11.6 22.2	same as above	.075	1.91	same as above	Single: .114 Overall: .275	2.90 6.99							
	1282S5 new	NEC: CMP CEC: CMP	5*	250 500 1000	76.2 152.4 304.8	18.0 33.0 67.0	8.2 15.0 30.4	same as above	.075	1.91	same as above	Single: .114 Overall: .308	2.90 7.82							
	1282S6 new	NEC: CMP CEC: CMP	6*	500 1000	152.4 304.8	39.5 80.0	17.9 36.3	same as above	.075	1.91	same as above	Single: .114 Overall: .342	2.90 8.69							

100% Sweep tested. 5 MHz to 850 MHz. Guaranteed Return Loss -20db max.

U.S. Patent 7,049,523

DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.
*Also available with all Black jackets.

Color Code Chart:

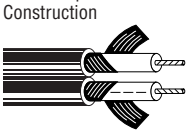
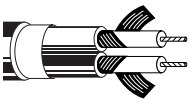
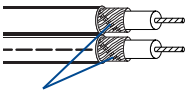
Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

High-Flex S-Video Cable

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
30 AWG Stranded (7x38) .012″ Tinned Copper Conductors • Tinned Copper Serve Shield (90% Coverage)																				
Foam HDPE Insulation • Matte Black PVC Jacket (One Coax Printed and Striped for Identification)																				
Parallel Zip Construction 	**1807A**	—	2	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	8.0 7.5 15.0 14.0	3.6 3.4 6.8 6.4	30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km	.058	1.47	TC Serve 90% Shield Coverage 7.5Ω/M′ 24.6Ω/km	.110 x .230	2.79 x 5.84	75	78%	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	.6 1.4 2.1 3.8 5.1 7.6 11.3 16.9 23.3 26.9 28.6	2.0 4.6 6.9 12.5 16.7 24.9 37.1 55.4 76.4 88.2 93.8
													For Plenum version see 7700A.							
Foam HDPE Insulation • Matte Black PVC Jacket (Inner PVC Jackets Color Code: Black and Yellow)																				
Round Construction 	**1808A**	—	2	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	16.5 14.5 31.0 33.0	7.5 6.6 14.1 15.0	30 AWG (7x38) .013″ TC 100.0Ω/M′ 328.0Ω/km	.058 Coax OD: .100	1.47 2.54	TC Serve 90% Shield Coverage 7.5Ω/M′ 24.6Ω/km	.255	.84	75	78%	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	.6 1.4 2.1 3.8 5.1 7.6 11.3 16.9 23.3 26.9 28.6	2.0 4.6 6.9 12.5 16.7 24.9 37.1 55.4 76.4 88.3 93.8
													Available in Plenum versions by special order only.							
30 AWG Stranded (7x38) .012″ Tinned Copper Conductors • Tinned Copper “French Braid” Shield (98% Coverage)																				
Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket (One Coax Printed and Striped for Identification)																				
Parallel Zip Construction  French Braid	**7700A**	NEC: CMP CEC: CMP FT6	2	500 1000	152.4 304.8	8.5 17.0	3.9 7.7	30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km	.053	1.35	TC “French Braid” 98% Shield Coverage 7.5Ω/M′ 24.6Ω/km	.107 x .214	2.72 x 5.44	75	78%	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	.7 1.7 2.3 4.1 5.3 7.6 11.8 17.6 24.2 28.0 29.8	2.3 5.6 7.5 13.5 17.4 24.9 38.7 57.7 79.4 91.9 97.8
													For Non-Plenum version see 1807A.							

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Teflon is a DuPont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Video Triax Cable

RG-59/U Type

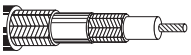
BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

22 AWG Stranded (19x34) .031″ Bare Copper Conductor • Double Bare Copper Braid Shield (95% Coverage)

Foam Polyethylene Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Purple or Black. Polyethylene Insulation between Braids)

High-Flex 75°C	**1857A**	—	500	152.4	42.5	19.3	22 AWG (19x34) .031″ BC 14.0Ω/M′ 45.9Ω/km	.143	3.63	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 1.6Ω/M′ 5.3Ω/km	.360	9.14	75	79%	17.0	55.8	1	.3	1.0
			1000	304.8	86.0	39.1											3.6	.5	1.6
																	10	.8	2.6
																	71.5	2.2	7.2
																	135	3.1	10.2
																	270	4.5	14.8
																	360	5.4	17.7
																	540	6.8	22.3
																	720	8.1	26.6
																	750	8.4	27.6
																	1000	10.1	33.1
																	1500	13.3	43.6
																	2250	17.6	57.7
																	3000	21.4	70.2



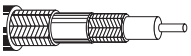
100% Sweep tested. 5 MHz to 850 MHz.

Suitable for Outdoor applications: Black for permanent installations, All colors for field deployable use.

20 AWG Solid .032″ Bare Copper Conductor • Bare Copper Double Braid Shield (95% Coverage)

Plenum • Foam FEP Insulation • Black FEP Jacket (FEP Insulation between Braids)

200°C	**88232**	NEC: CMP	500	152.4	29.0	13.2	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.140	3.56	(2) BC Braids 95% Coverage Inner: 2.6Ω/M′ 8.5Ω/km Outer: 2.6Ω/M′ 8.5Ω/km	.245	6.22	75	80%	16.9	55.4	1	.4	1.3
		CEC: CMP FT6	1000	304.8	61.0	27.7											3.6	.6	2.0
																	10	.8	2.6
																	71.5	2.2	7.2
																	135	3.1	10.2
																	270	4.5	14.8
																	360	5.3	17.4
																	540	6.6	21.7
																	720	7.7	25.3
																	750	7.9	25.9
																	1000	9.4	30.8
																	1500	12.1	39.7
																	2250	15.6	51.2
																	3000	18.7	61.4



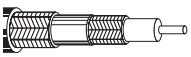
For Non-plenum version see 8232A.

100% Sweep tested. 5 MHz to 3 GHz.

20 AWG Solid .032″ Bare Copper Conductor • Bare Copper Double Braid Shield (80% Coverage)

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids)

80°C	**8232**	—	500	152.4	31.0	14.1	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145	3.68	(2) BC Braids 80% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 2.8Ω/M′ 9.2Ω/km	.315	8.00	75	83%	16.2	53.1	1	.3	1.0
			1000	304.8	60.0	27.3											3.6	.6	2.0
			2000	609.6	118.0	53.6											10	.9	3.0
																	71.5	2.1	6.9
																	135	3.0	9.8
																	270	4.2	13.8
																	360	4.8	15.7
																	540	5.9	19.4
																	720	7.0	23.0
																	750	7.1	23.3
																	1000	8.3	27.2
																	1500	10.5	34.5
																	2250	13.4	44.0
																	3000	15.9	52.2



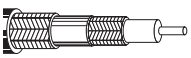
For Plenum version see 88232.

100% Sweep tested. 5 MHz to 3 GHz.

Suitable for Outdoor and Direct Burial applications. Suitable for Aerial applications when supported by a Messenger wire.

Gas-injected Foam HDPE Insulation • Black PVC Jacket (PVC Insulation between Braids)

75°C	**8232A**	NEC: CMR	1000	304.8	68.0	30.8	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145	3.68	(2) BC Braids 80% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 2.8Ω/M′ 9.2Ω/km	.315	8.00	75	83%	16.2	53.1	1	.3	1.0
		CEC: CMG FT4															3.6	.6	2.0
																	10	.9	3.0
																	71.5	2.1	6.9
																	135	3.0	9.8
																	270	4.2	13.8
																	360	4.8	15.7
																	540	5.9	19.4
																	720	7.0	23.0
																	750	7.1	23.3
																	1000	8.3	27.2
																	1500	10.5	34.5
																	2250	13.4	44.0
																	3000	15.9	52.2



For Plenum version see 88232.

100% Sweep tested. 5 MHz to 3 GHz.

Suitable for Aerial applications when supported by a Messenger wire and for Outdoor Applications.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

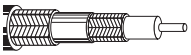
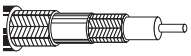
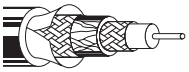
견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Video Triax Cable

RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
20 AWG Solid .032″ Bare Copper Conductor • Double Bare Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Belflex® Jacket (Red, Yellow, Green, Blue or Black); Polyethylene Insulation between Braids																			
75°C	**1856A**	—	1000	304.8	83.0	37.7	20 AWG (solid) .032″ BC 10.1Ω/M′ 33.1Ω/km	.145	3.68	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 1.6Ω/M′ 5.3Ω/km	.360	9.14	75	83%	16.2	53.1	1	.3	1.0
											100% Sweep tested. 5 MHz to 3 GHz.						3.6	.6	2.0
																	10	.8	2.6
																	71.5	2.2	7.2
																	135	3.0	9.8
																	270	4.2	13.8
																	360	4.8	15.7
																	540	5.9	19.4
																	720	6.9	22.6
																	750	7.1	23.3
																	1000	8.8	28.9
																	1500	12.0	39.4
																	2250	16.4	53.8
Suitable for Outdoor applications: Black for permanent installations, all colors for field deployable use.																	3000	20.4	66.9
Gas-injected Foam HDPE Insulation • Belflex Jacket (Red, Yellow, Green, Blue, Purple or Black); PVC Insulation between Braids																			
75°C	**1856B**	NEC: CMR CEC: CMG FT4	1000	304.8	86.0	39.1	20 AWG (solid) .032″ BC 10.1Ω/M′ 33.1Ω/km	.145	3.68	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 1.6Ω/M′ 5.2Ω/km	.360	9.14	75	83%	16.2	53.1	1	.3	1.0
											100% Sweep tested. 5 MHz to 3 GHz.						3.6	.6	2.0
																	10	.8	2.6
																	71.5	2.2	7.2
																	135	3.0	9.8
																	270	4.2	13.8
																	360	4.8	15.7
																	540	5.9	19.4
																	720	6.9	22.6
																	750	7.1	23.3
																	1000	8.8	28.9
																	1500	12.0	39.4
																	2250	16.4	53.8
Suitable for Indoor/Outdoor applications.																	3000	20.4	66.9
Gas-injected Foam HDPE Insulation • Paper Tape Separator • Black Hypalon® Jacket (Polyethylene Insulation between Braids)																			
80°C	**9267**	—	500	152.4	39.5	18.0	20 AWG (solid) .032″ BC 10.0Ω/M′ 33.1Ω/km	.145	3.68	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 2.6Ω/M′ 8.5Ω/km	.360	9.14	75	82%	16.3	53.5	1	.3	1.0
VW-1			1000	304.8	77.0	35.0											3.6	.6	2.0
											100% Sweep tested. 5 MHz to 3 GHz.						10	.9	3.0
																	71.5	2.1	6.9
																	135	2.9	9.5
																	270	4.2	13.8
																	360	4.8	15.7
																	540	6.0	19.7
																	720	6.7	22.0
																	750	6.9	22.6
																	1000	8.3	27.2
																	1500	10.5	34.5
																	2250	13.4	44.0
Suitable for Outdoor and Direct Burial applications and Aerial when supported by a Messenger wire.																	3000	15.9	52.2

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Hypalon is a DuPont trademark.

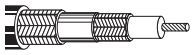
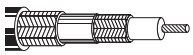
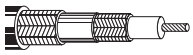
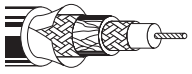
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Video Triax Cable

RG-11/U Type
75 Ohms

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
15 AWG Stranded (19x27) .064″ Bare Copper Conductor • Double Bare Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Purple or Black) Polyethylene Insulation between Braids																			
High-Flex 75°C	**1858A**	—	500 1000	152.4 304.8	80.5 157.0	36.8 71.8	15 AWG (19x27) .064″ BC 3.1Ω/M′ 10.2Ω/km	.312	7.92	(2) BC Braids 95% Coverage Inner: 1.8Ω/M′ 5.9Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.520	13.20	75	78%	17.3	56.8	1 3.6 10 71.5 135 270 360 540 720 750 1000	.1 .3 .5 1.2 1.8 2.6 3.1 3.9 4.7 4.8 5.7	.5 1.0 1.6 3.9 5.9 8.5 10.2 12.8 15.4 15.7 18.7
											100% Sweep tested. 5 MHz to 850 MHz.								
Suitable for Outdoor applications: Black for permanent installations, all colors for field deployable use.																			
Plenum • Foam FEP Teflon® Insulation • Black Fluorocopolymer Jacket (Fluorocopolymer Insulation between Braids)																			
125°C	**1859A**	NEC: CMP CEC: CMP FT6	500 1000	152.4 304.8	66.5 134.0	30.2 60.9	15 AWG (19x27) .064″ BC 3.1Ω/M′ 10.2Ω/km	.285	7.24	(2) BC Braids 95% Coverage Inner: 1.4Ω/M′ 4.6Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.406	10.30	75	80%	16.5	54.1	1 3.6 10 71.5 135 270 360 540 720 750 1000	.1 .2 .5 1.3 1.9 3.0 3.6 4.5 5.4 5.6 6.6	.3 .7 1.6 4.3 6.2 9.8 11.8 14.8 17.7 18.4 21.7
											100% Sweep tested. 5 MHz to 850 MHz.								
Suitable for Outdoor and Direct Burial applications and Aerial when supported by a Messenger wire.																			
15 AWG Stranded (19x27) .064″ Bare Copper Conductor • Double Bare Copper Braid Shield (90% Coverage)																			
Gas-injected Foam HDPE Insulation • Yellow PVC Jacket (Polyethylene Insulation between Braids)																			
UL AWM Style 1641 (30V 75°C) VW-1	**9192**	NEC: CL2X	1000	304.8	150.0	68.2	15 AWG (19x27) .064″ BC 3.1Ω/M′ 10.2Ω/km	.312	7.92	(2) BC Braids 90% Coverage Inner: 1.6Ω/M′ 5.3Ω/km Outer: 1.6Ω/M′ 5.3Ω/km	.520	13.20	75	78%	17.3	56.8	1 3.6 10 71.5 135 270 360 540 720 750 1000	.1 .3 .5 1.2 1.8 2.6 3.1 3.9 4.7 4.8 5.7	.5 1.0 1.6 3.9 5.9 8.5 10.2 12.8 15.4 15.7 18.7
											100% Sweep tested. 5 MHz to 850 MHz.								
Suitable for Outdoor applications: Black for permanent installations, all colors for field deployable use.																			
Gas-injected Foam HDPE Insulation • Paper Tape Separator • Black Hypalon® Jacket (Polyethylene Insulation between Braids)																			
UL AWM Style 1641 (30V 75°C) VW-1	**9232**	—	500 1000	152.4 304.8	76.5 145.0	19.3 65.9	15 AWG (19x27) .064″ BC 3.1Ω/M′ 10.2Ω/km	.312	7.92	(2) BC Braids 90% Coverage Inner: 1.6Ω/M′ 5.3Ω/km Outer: 1.7Ω/M′ 5.3Ω/km	.520	13.20	75	78%	17.3	56.8	1 3.6 10 71.5 135 270 360 540 720 750 1000	.1 .3 .5 1.2 1.8 2.6 3.1 3.9 4.7 4.8 5.7	.5 1.0 1.6 3.9 5.9 8.5 10.2 12.8 15.4 15.7 18.7
											100% Sweep tested. 5 MHz to 850 MHz.								
Suitable for Outdoor and Direct Burial applications.																			

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Teflon is a DuPont trademark.

Hypalon is a DuPont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Video Triax Cable

RG-11/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

14 AWG Solid .064″ Bare Copper Conductor • Double Bare Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids)

80°C	**8233**	—	500	152.4	63.0	28.6	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.285	7.24	(2) BC Braids 95% Coverage Inner: 1.6Ω/M′ 5.3Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.475	12.07	75	84%	16.1	52.8	1	.2	.7
			1000	304.8	122.0	55.5											3.6	.3	1.0
			2000	609.6	240.0	109.1											10	.4	1.3
																	71.5	1.1	3.6
																	135	1.5	4.9
																	270	2.3	7.5
																	360	2.7	8.9
											100% Sweep tested. 5 MHz to 3 GHz.						540	3.5	11.5
																	720	4.2	13.8
																	750	4.3	14.1
																	1000	5.2	17.1
																	1500	7.1	23.3
																	2250	9.6	31.5
Suitable for Outdoor and Direct Burial applications and Aerial when supported by a Messenger wire.																	3000	12.0	39.4

Gas-injected Foam HDPE Insulation • Black PVC Jacket (PVC Insulation between Braids)

75°C	**8233A**	NEC: CMR	1000	304.8	136.0	61.7	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.285	7.24	(2) BC Braids 95% Coverage Inner: 1.6Ω/M′ 5.3Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.475	12.07	75	84%	16.1	52.8	1	.2	.7
			2000	609.6	266.0	120.7											3.6	.3	1.0
		CEC: CMG FT4	4000†	1219.2	572.0	259.5											10	.4	1.3
																	71.5	1.1	3.6
																	135	1.5	4.9
																	270	2.3	7.5
																	360	2.7	8.9
											100% Sweep tested. 5 MHz to 3 GHz.						540	3.5	11.5
																	720	4.2	13.8
																	750	4.3	14.1
																	1000	5.2	17.1
																	1500	7.1	23.3
																	2250	9.6	31.5
Suitable for Aerial applications when supported by a Messenger wire and for Outdoor applications.																	3000	12.0	39.4

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (PE Insulation between Braids; Flooding Compound on Outer Braid)

Flooded 80°C	**7803A**	—	500	152.4	64.0	29.1	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.285	7.24	(2) BC Braids 95% Coverage Inner: 1.6Ω/M′ 5.2Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.475	12.07	75	84%	16.1	52.8	1	.2	.7
			1000	304.8	123.0	55.9											3.6	.3	1.0
			3000	914.4	381.0	173.2											10	.4	1.3
																	71.5	1.1	3.6
																	135	1.5	4.9
																	270	2.3	7.5
																	360	2.7	8.9
											100% Sweep tested. 5 MHz to 3 GHz.						540	3.5	11.5
																	720	4.2	13.8
																	750	4.3	14.1
																	1000	5.2	17.1
																	1500	7.1	23.3
																	2250	9.6	31.5
Suitable for Outdoor and Direct Burial applications and Aerial applications when supported by a Messenger wire.																	3000	12.0	39.4

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • PE = Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

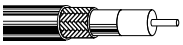
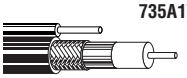
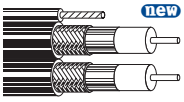
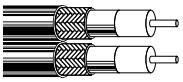
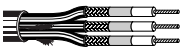
†Final put-up may vary ±10% from length shown.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DS-3 and DS-4 Interconnect and Cross-connect Cable

735A* Series

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation Stand. Signal (Mb/s)	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
26 AWG Solid .016″ (.40mm) Silver-plated Copper Conductor(s) • Beldfoil® + Tinned Copper Braid Shield (93% Coverage)																					
Foam HDPE Insulation • Overall Gray PVC Jacket (Multiple coaxes feature inner Gray PVC jackets w/printed nos. for circuit ID)																					
	**735A1**	NEC: CMR CEC: CMG FT4	1	500 1000	152.4 304.8	6.5 12.0	2.9 5.5	26 AWG (solid) .016″ SPC 41.0Ω/M′ 134.5Ω/km	.077	1.96	Beldfoil + 93% TC Braid 5.3Ω/M′ 17.4Ω/km	.129	3.38	75	76%	17.7	58.0	2	1.0	.6	2.0
																		CEPT-1	1.0	.6	2.0
																		CEPT-2	4.2	1.1	3.6
																		10	5.0	1.2	3.9
																		20	10.0	1.7	5.6
																		CEPT-3	17.2	2.2	7.2
																		DS-3	22.4	2.5	8.2
																		STS-1	25.9	2.7	8.9
																		89.472	44.7	3.6	11.8
																		100	50.0	3.8	12.5
																		CEPT-4	69.6	4.5	14.8
																		STS-3	77.8	4.8	15.7
																		200	100.0	5.5	18.0
																		DS-4	137.1	6.4	21.0
																		400	200.0	7.8	25.6
												For Plenum version see 735A1P.									
	**735A1T**	NEC: CMR CEC: CMG FT4	1 w/T	500 1000	152.4 304.8	7.5 13.0	3.4 6.0	same as above	.077	1.96	same as above	.129 x .203	3.28 x 5.16								
PVC insulated tracer.																					
	**73502T** new	NEC: CMR CEC: CMG	2 w/T	500 1000	152.4 304.8	20.0 44.0	9.1 20.0	26 AWG (solid) .017″ SPC 41.0Ω/M′ 134.5Ω/km	.077	1.96	same as above	.179 x .308	4.55 x 7.82								
22 AWG stranded (7x30) tinned copper PVC insulated tracer.																					
	**735A2**	NEC: CMR CEC: CMG FT4	2	500† 1000†	152.4 304.8	14.0 26.0	6.4 11.8	26 AWG (solid) .016″ SPC 41.0Ω/M′ 134.5Ω/km	.077	1.96	same as above	.129 x .258	3.28 x 6.55								
Siamese versions bonded in parallel, feature zip cord design with printing on one leg. Suitable for Outdoor applications.																					
	**735A3**	NEC: CMR CEC: CMG FT4	3	500† 1000†	152.4 304.8	27.0 52.0	12.0 23.6	same as above	.077 Coax OD: .129	1.96 3.28	same as above	.309	7.85								
	735A6	NEC: CMR CEC: CMG FT4	6	500 1000	152.4 304.8	47.0 95.0	21.3 43.1	same as above	.077 Coax OD: .129	1.96 3.28	same as above	.399	10.14								
	735A8	NEC: CMR CEC: CMG FT4	8	500† 1000	152.4 304.8	64.5 125.0	29.3 56.7	same as above	.077 Coax OD: .129	1.96 3.28	same as above	.447	11.35								
	735A9	NEC: CMR CEC: CMG FT4	9	500† 1000†	152.4 304.8	77.0 133.0	34.9 60.5	same as above	.077 Coax OD: .129	1.96 3.28	same as above	.484	12.29								
	735A12	NEC: CMR CEC: CMG FT4	12	500 1000	152.4 304.8	94.5 187.0	43.0 85.0	same as above	.077 Coax OD: .129	1.96 3.28	same as above	.581	14.76								
	735A16	NEC: CMR CEC: CMG FT4	16	500 1000	152.4 304.8	126.5 257.0	57.4 116.6	same as above	.077 Coax OD: .129	1.96 3.28	same as above	.636	16.15								
	735A24	NEC: CMR CEC: CMG FT4	24	1000†	304.8	416.0	188.7	same as above	.077 Coax OD: .129	1.96 3.28	same as above	.870	22.10								
Plenum • Foam FEP Insulation • Gray Flamarrest® Jacket																					
	**735A1P**	NEC: CMP CEC: CMP FT6	1	500 1000	152.4 304.8	7.5 14.0	3.4 6.4	same as above	.077	1.96	same as above	.129	3.28	75	76%	17.7	58.1	(same as above)			

100% Sweep tested.
RL: 30dB min. at 15 MHz to 95 MHz.

Non-plenum versions comply with Telcordia Specification GR-139-CORE.

100% Sweep tested.
RL: 30 dB min. at 15 MHz to 95 MHz.

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • SPC = Silver-plated Copper • TC = Tinned Copper
See chart on page 6.58 for maximum transmission distances.

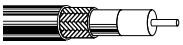
*Lucent Technologies reference specification. Belden equivalent. Minimum Return Loss @ 55 MHz to 95 MHz = -35dB.
†Final put-ups may vary ±10% from length shown for spools or reels and ±5% for UnReel® cartons.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DS-3 and DS-4 Interconnect and Cross-connect Cable

734A* Series

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation Stand. Signal (Mb/s)	MHz	dB/ 100 Ft.	dB/ 100m
20 AWG Solid .032″ (.81mm) Bare Copper Conductor(s) • Beldfoil® (100% Coverage) + Tinned Copper Braid Shield (85% Coverage)																					
Gas-injected FHDPE Insulation • Overall Gray PVC Jacket (Multiple coaxes feature inner Gray PVC jackets w/printed nos. for circuit ID)																					
	**734A1**	NEC: CMR CEC: CMG FT4	1	500 1000	152.4 304.8	16.0 35.0	7.3 15.9	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.148	3.76	Beldfoil + 85% TC Braid 2.4Ω/M′ 7.9Ω/km	.235	5.97	75	80%	16.8	55.1	2	1.0	.3	1.0
																		CEPT-1	1.0	.3	1.0
																		CEPT-2	4.2	.5	1.6
																		10	5.0	.6	2.0
																		20	10.0	.8	2.6
	**734A6**	NEC: CMR CEC: CMG FT4	6	500 1000	152.4 304.8	142.5 293.0	64.6 132.9	same as above	.148 Coax OD: .235	3.76 5.97	same as above	.772	19.61	100% Sweep tested. RL: 30dB min. at 15 MHz to 95 MHz. Non-plenum versions comply with Telcordia Specification GR-139-CORE.					CEPT-3	17.2	1.0	3.3
																		DS-3	22.4	1.1	3.6
																		STS-1	25.9	1.2	3.9
																		89.472	44.7	1.6	5.3
																		100	50.0	1.7	6.6
	734A12	NEC: CMR CEC: CMG FT4	12	500 1000	152.4 304.8	282.5 551.0	128.1 250.5	same as above	.148 Coax OD: .235	3.76 5.97	same as above	1.026	26.06					CEPT-4	69.6	2.0	6.5
																		STS-3	77.8	2.1	6.9
																		200	100.0	2.5	8.2
																		DS-4	137.1	2.9	9.5
																		400	200.0	3.6	11.8
Plenum • Foam FEP Insulation • Gray Flamarrest® Jacket																					
	**734A1P**	NEC: CMP CEC: CMP FT6	1	500 1000	152.4 304.8	16.5 36.0	7.5 16.3	same as above	.148	3.76	same as above	.215	5.46	75	80%	17.3	56.8	(same as above)			
														100% Sweep tested. RL: 30dB min. at 15 MHz to 95 MHz.							

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • FHDPE = Foam High-density Polyethylene • TC = Tinned Copper

See chart on page 6.58 for maximum transmission distances.

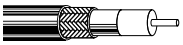
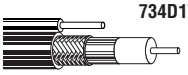
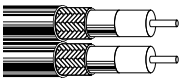
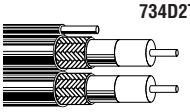
*Lucent Technologies reference specification. Belden equivalent.

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DS-3 and DS-4 Interconnect and Cross-connect Cable

734D* Series

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation Stand. Signal (Mb/s)	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
20 AWG Solid .032″ (.81mm) Silver-plated Copper Conductor(s) • Beldfoil® (100% Coverage) + Tinned Copper Braid Shield (85% Coverage)																					
Gas-injected FHDPE Insulation • Overall Gray PVC Jacket (Multiple coaxes feature inner Gray PVC jackets w/printed nos. for circuit ID)																					
	**734D1**	NEC: CMR CEC: CMG FT4	1	500 1000	152.4 304.8	16.0 36.0	7.3 16.3	20 AWG (solid) .032″ SPC 10.0Ω/M′ 32.8Ω/km	.148	3.76	Beldfoil + 85% TC Braid 2.4Ω/M′ 7.9Ω/km	.235	5.97	75	80%	16.8	55.1	2 CEPT-1 CEPT-2 10 20 CEPT-3 DS-3 STS-1 89.472 100 CEPT-4 STS-3 200 DS-4 400	1.0 1.0 4.2 5.0 10.0 17.2 22.4 25.9 44.7 50.0 69.6 77.8 100.0 137.1 200.0	.3 .5 .6 .8 1.0 1.1 1.2 1.6 1.7 2.0 2.1 2.5 2.9 3.6	1.0 1.6 2.0 2.6 3.3 3.6 3.9 5.3 5.6 6.6 6.9 8.2 9.5 11.8
	**734D1T**	NEC: CMR CEC: CMG FT4	1 w/T	500 1000	152.4 304.8	17.5 39.0	7.9 17.7	same as above	.148	3.76	same as above	.235 x .309	5.97 x 7.85								
PVC insulated trace.																					
	**734D2**	NEC: CMR CEC: CMG FT4	2	500 1000	152.4 304.8	35.5 66.0	16.1 29.9	same as above	.148	3.76	same as above	.235 x .485	5.97 x 12.32								
Siamese versions bonded in parallel, feature zip cord design with printing on one leg.																					
	**734D2T**	NEC: CMR CEC: CMG FT4	2 w/T	500 † 1000 †	152.4 304.8	37.5 73.0	17.0 33.1	same as above	.148	3.76	same as above	.235 x .574	5.97 x 14.58								
Siamese versions bonded in parallel, feature zip cord design with printing on one leg and PVC insulated tracer.																					
	**734D6**	NEC: CMR CEC: CMG FT4	6	500 † 1000 †	152.4 304.8	141.0 290.0	64.1 131.8	same as above	.148 Coax OD: .235	3.76 5.97	same as above	.772	19.61								
	734D12	NEC: CMR CEC: CMG FT4	12	500 1000	152.4 304.8	284.5 555.0	129.3 252.3	same as above	.148 Coax OD: .235	3.76 5.97	same as above	1.026	26.06								
Plenum • Foam FEP Insulation • Gray Flamarrest® Jacket																					
	**734D1P**	NEC: CMP CEC: CMP FT6	1	500 1000	152.4 304.8	17.0 37.0	7.7 16.8	same as above	.148	3.76	same as above	.215	5.46	75	80%	17.3	56.7	(same as above)			

100% Sweep tested.
RL: 30dB min. at 15 MHz to 95 MHz.

Non-plenum versions comply with Telcordia Specification GR-139-CORE.

100% Sweep tested.
RL: 30dB min. at 15 MHz to 95 MHz.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • FHDPE = Foam High-density Polyethylene • SPC = Silver-plated Copper • TC = Tinned Copper

See chart on page 6.58 for maximum transmission distances.

*Lucent Technologies reference specification. Belden equivalent. †Final put-ups may vary ±10% from length shown for spools or reels and ±5% for UnReel® cartons.

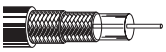
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DS-3 and DS-4 Interconnect and Cross-connect Cable

728A* and 720A* Series

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation			
				Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	Stand. Signal (Mb/s)	MHz	dB/ 100 Ft.	dB/ 100m
20 AWG Solid .031″ Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)																					
Polyethylene Insulation • Gray PVC Jacket																					
Double Braid 60°C VW-1	**9231** (728A*)	NEC: CMH CEC: CMH FT1	1	500 1000	152.4 304.8	39.0 76.0	17.7 34.5	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	2 CEPT-1 CEPT-2 10 20 CEPT-3 DS-3 STS-1 89.472 100 CEPT-4 STS-3 200 DS-4 400	1.0 1.0 4.2 5.0 10.0 17.2 22.4 25.9 44.7 50.0 69.6 77.8 100.0 137.1 200.0	.3 .3 .5 .6 .8 1.0 1.1 1.2 1.4 1.5 2.0 2.2 2.7 3.1 3.7	1.0 1.0 1.6 2.0 2.6 3.3 3.6 3.9 4.6 4.9 6.6 7.2 8.9 10.2 12.1



100% Sweep tested.
RL: 30dB min. at 15 MHz to 95 MHz.

Non-plenum versions comply with Telcordia Specification GR-139-CORE.

Non-contaminating PVC jacket.
Suitable for Outdoor applications and Aerial when supported by a Messenger wire.

720A* Series Belden 720A Coaxial Cable Series is available by special request.
Contact the Belden Customer Service Department for quotes. 1-800-BELDEN-1.

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

See table below for maximum transmission distances.

*Lucent Technologies reference specification. Belden equivalent.

Maximum Transmission Distances for DS-3 and DS-4 Cable

Data Rates:	DS-3 (44.736 Mb/s)		STS-1 (51.86 Mb/s)		DS-4Na (CEPT-4) (139.264 Mb/s)		STS-3 (155.520 Mb/s)		DS-4 (274.176 Mb/s)	
Belden Part No.	**Interconnect**	**X-Connect**	**Interconnect**	**X-Connect**	**Interconnect**	**X-Connect**	**Interconnect**	**X-Connect**	**Interconnect**	**X-Connect**
735A Series and 7351AP	225 ft. (68.6m)	21 ft. (6.4m)	210 ft. (64.0m)	20 ft. (6.1m)	125 ft. (38.1m)	13 ft. (4.0m)	120 ft. (36.6m)	11 ft. (3.4m)	90 ft. (27.4m)	8 ft. (2.4m)
734A and 734D Series	450 ft. (137.2m)	43 ft. (13.1m)	420 ft. (128.0m)	40 ft. (12.2m)	250 ft. (76.2m)	24 ft. (7.3m)	240 ft. (73.2m)	22 ft. (6.7m)	180 ft. (54.9m)	17 ft. (5.2m)
734A1P and 734D1P	435 ft. (132m)	43 ft. (13m)	410 ft. (125m)	40 ft. (12m)	240 ft. (73m)	24 ft. (7m)	225 ft. (68m)	22 ft. (8m)	170 ft. (52m)	17 ft. (5m)
728A	425 ft. (129.5m)	—	380 ft. (115.8m)	—	220 ft. (67.1m)	—	210 ft. (64.0m)	—	155 ft. (47.2m)	—
720A Series	225 ft. (68.6m)	25 ft. (7.6m)	230 ft. (70.1m)	23 ft. (7.0m)	140 ft. (42.7m)	14 ft. (4.3m)	130 ft. (39.6m)	13 ft. (4.0m)	100 ft. (30.5m)	9 ft. (2.7m)

DS = Digital Signal • STS = Synchronous Transmission Signal • CEPT = European Conference of Postal and Telecommunications Administrations

Please note: The signal loss budget for individual installations will affect the exact transmission distance.

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Low Loss 50 Ohm Wireless RF Transmission Cable

RG-174 Type

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-174 Type • 25 AWG Solid .018″ Bare Copper Conductor • Beldfoil® (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)																			
Solid Polyethylene Insulation • Black PVC Jacket																			
RF100A 80°C	**7805**	—	100†	30.5	1.8	.8	25 AWG (solid) .018″ BC 3.2Ω/M′ 10.5Ω/km	.061	1.55	Beldfoil + 90% TC Braid 9.1Ω/M′ 29.9Ω/km	.110	2.79	50	66%	31.2	102.4	30	3.8	12.4
			500	152.4	5.5	2.5											50	4.9	16.1
			1000	304.8	10.0	4.5											150	8.6	28.2
																	220	10.4	34.2
																	450	15.2	49.9
																	900	22.0	72.3
																	1500	28.7	94.3
																	1800	31.7	104.0
																	2000	33.4	109.7
																	2500	37.8	124.2
																	3000	42.0	137.8
																	4500	52.3	171.5
																	5800	60.9	199.8
																	6000	62.0	203.3



100% Sweep tested. 6 GHz. Max. VSWR 1.25:1

Belden® The Wire in Wireless.

Mates with standard RG-174 connectors. Suitable for Aerial applications when supported by a Messenger wire.

RG-174 Type • 24.5 AWG Solid .020″ Bare Copper Conductor • Beldfoil + Tinned Copper Braid Shield (93% Coverage)																			
Foam HDPE Insulation • Gray PVC Jacket																			
RF100LL 80°C	**7805R**	NEC: CMR	100†	30.5	1.8	.8	24.5 AWG (solid) .020″ BC 27.3Ω/M′ 94.2Ω/km	.060	1.52	Beldfoil + 93% TC Braid 9.3Ω/M′ 30.5Ω/km	.110	2.79	50	73.5%	26.2	86.0	30	3.5	11.5
			500	152.4	5.5	2.5											50	4.6	15.0
		CEC:	1000	304.8	10.0	4.5											150	8.0	26.1
		CMG FT4															220	9.6	31.6
																	450	14.0	46.1
																	900	20.2	66.4
																	1500	26.6	87.3
																	1800	29.5	96.7
																	2000	31.2	102.3
																	2500	35.4	116.3
																	3000	39.4	129.2
																	4500	50.0	164.2
																	5800	59.0	193.6
																	6000	60.6	198.7



100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with standard RG-174 connectors.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

†May contain more than one piece. Min. length of any one piece is 25 ft.

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Low Loss 50 Ohm Wireless RF Transmission Cable

RG-58 Type

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-58 Type • 19 AWG Solid .037″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)																			
Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket																			
RF195 80°C	**7806A**	—	500 1000	152.4 304.8	14.5 23.0	6.6 10.4	19 AWG (solid) .037″ BC 7.6Ω/M′ 24.9Ω/km	.110	2.79	Duofoil + 90% TC Braid 4.2Ω/M′ 13.8Ω/km	.195	4.95	50	77%	24.3	79.7	30 50 150 220 450 900 1500 1800 2000 2500 3000 4500 5800 6000	2.0 2.5 4.0 4.9 7.1 10.3 13.7 15.2 16.1 18.3 20.5 26.5 31.2 32.0	6.6 8.2 13.3 16.1 23.4 33.8 44.8 49.7 52.8 60.1 67.3 86.8 102.4 105.0
																			
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.									
										Belden® The Wire in Wireless.									
Mates with standard RG-58 connectors.* Suitable for Outdoor and Direct Burial applications.																			
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
RF195 80°C	**7806R**	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	16.5 27.0	7.5 12.3	19 AWG (solid) .037″ BC 7.6Ω/M′ 24.9Ω/km	.110	2.79	Duofoil + 90% TC Braid 4.2Ω/M′ 13.8Ω/km	.195	4.95	50	77%	24.3	79.7	30 50 150 220 450 900 1500 1800 2000 2500 3000 4500 5800 6000	2.0 2.5 4.0 4.9 7.1 10.3 13.7 15.2 16.1 18.3 20.5 26.5 31.2 32.0	6.6 8.2 13.3 16.1 23.4 33.8 44.8 49.7 52.8 60.1 67.3 86.8 102.4 105.0
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.									
										Belden® The Wire in Wireless.									
Mates with standard RG-58 connectors.*																			
RG-58 Type • 17 AWG Solid .044″ Bare Copper Conductor • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket																			
RF200 80°C	**7807A**	—	500 1000	152.4 304.8	15.0 24.0	6.8 10.9	17 AWG (solid) .044″ BC 3.3Ω/M′ 10.9Ω/km	.116	2.95	Duofoil + 95% TC Braid 4.2Ω/M′ 13.8Ω/km	.195	4.95	50	85%	23.5	77.1	30 50 150 220 450 900 1500 1800 2000 2500 3000 4500 5800 6000	1.6 2.1 3.7 4.5 6.5 9.2 12.0 13.2 14.0 15.7 17.5 22.0 25.2 26.0	5.4 7.0 12.1 14.6 21.2 30.1 39.2 43.2 45.8 51.6 57.3 72.3 82.7 85.1
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.									
										Belden® The Wire in Wireless.									
Mates with standard Land Mobile Radio type connectors.* Suitable for Outdoor and Direct Burial applications.																			
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
RF200 80°C	**7807R**	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	13.5 27.0	6.1 12.3	17 AWG (solid) .044″ BC 3.3Ω/M′ 10.9Ω/km	.116	2.95	Duofoil + 95% TC Braid 4.2Ω/M′ 13.8Ω/km	.195	4.95	50	85%	23.5	77.1	30 50 150 220 450 900 1500 1800 2000 2500 3000 4500 5800 6000	1.6 2.1 3.7 4.5 6.5 9.2 12.0 13.2 14.0 15.7 17.5 22.0 25.2 26.0	5.4 7.0 12.1 14.6 21.2 30.1 39.2 43.2 45.8 51.6 57.3 72.3 82.7 85.1
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.									
										Belden® The Wire in Wireless.									
Mates with standard Land Mobile Radio type connectors.*																			

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Please consult Belden's website, www.belden.com, for complete listing.

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Low Loss 50 Ohm Wireless RF Transmission Cable

RG-8X Type

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-8X Type • 15 AWG Solid .057″ Bare Copper Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket																			
RF240 80°C	**7808A**	—	500	152.4	18.0	8.2	15 AWG (solid) .057″ BC 3.2Ω/M′ 10.5Ω/km	.150	3.81	Duobond II* + 95% TC Braid 2.8Ω/M′ 9.2Ω/km	.240	6.10	50	86%	23.0	75.5	30	1.3	4.1
			1000	304.8	39.0	17.7											50	1.6	5.3
																	150	2.8	9.3
																	220	3.4	11.1
																	450	4.9	16.1
																	900	7.0	22.9
																	1500	9.1	30.0
																	1800	10.1	33.2
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.							2000	10.7	35.0
										Belden® The Wire in Wireless.							2500	12.0	39.5
																	3000	13.4	43.9
																	4500	16.7	54.7
Mates with standard RG-8X connectors.**																	5800	19.5	64.0
Suitable for Outdoor and Direct Burial applications.																	6000	19.8	65.0
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
RF240 80°C	**7808R**	NEC: CMR CEC: CMG FT4	500	152.4	20.0	9.1	15 AWG (solid) .057″ BC 3.2Ω/M′ 10.5Ω/km	.150	3.81	Duobond II* + 95% TC Braid 2.8Ω/M′ 9.2Ω/km	.240	6.10	50	86%	23.0	75.5	30	1.3	4.1
			1000	304.8	44.0	20.0											50	1.6	5.3
																	150	2.8	9.3
																	220	3.4	11.1
																	450	4.9	16.1
																	900	7.0	22.9
																	1500	9.1	30.0
																	1800	10.1	33.2
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.							2000	10.7	35.0
										Belden® The Wire in Wireless.							2500	12.0	39.5
																	3000	13.4	43.9
																	4500	16.7	54.7
Mates with standard RG-8X connectors.**																	5800	19.5	64.0
																	6000	19.8	65.0
Gas-injected Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket																			
RF240 80°C	**7808WB**	—	500	152.4	18.0	8.2	15 AWG (solid) .057″ BC 3.2Ω/M′ 10.5Ω/km	.150	3.81	Duobond II* + 95% TC Braid 2.8Ω/M′ 9.2Ω/km	.240	6.10	50	86%	23.0	75.5	30	1.3	4.1
			1000	304.8	39.0	17.7											50	1.6	5.3
																	150	2.8	9.3
																	220	3.4	11.1
																	450	4.9	16.1
																	900	7.0	22.9
																	1500	9.1	30.0
																	1800	10.1	33.2
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.							2000	10.7	35.0
										Belden® The Wire in Wireless.							2500	12.0	39.5
																	3000	13.4	43.9
																	4500	16.7	54.7
Mates with standard RG-8X connectors.**																	5800	19.5	64.0
Suitable for Outdoor and Direct Burial applications.																	6000	19.8	65.0

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

**Please consult Belden's website, www.belden.com, for complete listing.

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Low Loss 50 Ohm Wireless RF Transmission Cable

Intermediate Type

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

Intermediate Type • 13 AWG Solid .072″ Bare Copper Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket

RF300 80°C	**7809A**	—	500	152.4	30.5	13.9	13 AWG (solid) .072″ BC 2.1Ω/M′ 6.9Ω/km	.190	4.83	Duobond II* + 95% TC Braid 2.4Ω/M′ 7.8Ω/km	.300	7.62	50	86%	23.0	75.5	30	1.0	3.4
			1000	304.8	58.0	26.3											50	1.3	4.2
																	150	2.2	7.3
																	220	2.7	8.9
																	450	3.9	12.9
																	900	5.6	18.3
																	1500	7.3	24.0
																	1800	8.1	26.5
																	2000	8.6	28.2
																	2500	9.7	31.9
																	3000	10.8	35.4
																	4500	13.5	44.4
																	5800	15.8	51.8
																	6000	16.0	52.6



100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

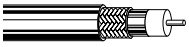
Belden® The Wire in Wireless.

Mates with Land Mobile Radio type connectors.**

Suitable for Outdoor and Direct Burial applications.

Gas-injected Foam HDPE Insulation • Black PVC Jacket

RF300 80°C	**7809R**	NEC: CMR CEC: CMG FT4	500	152.4	34.0	15.5	13 AWG (solid) .072″ BC 2.1Ω/M′ 6.9Ω/km	.190	4.83	Duobond II* + 95% TC Braid 2.4Ω/M′ 7.8Ω/km	.300	7.62	50	86%	23.0	75.5	30	1.0	3.4
			1000	304.8	65.0	29.5											50	1.3	4.2
																	150	2.2	7.3
																	220	2.7	8.9
																	450	3.9	12.9
																	900	5.6	18.3
																	1500	7.3	24.0
																	1800	8.1	26.5
																	2000	8.6	28.2
																	2500	9.7	31.9
																	3000	10.8	35.4
																	4500	13.5	44.4
																	5800	15.8	51.8
																	6000	16.0	52.6



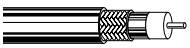
100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with Land Mobile Radio type connectors.**

Gas-injected Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket

RF300 80°C	**7809WB**	—	500	152.4	30.5	13.9	13 AWG (solid) .072″ BC 2.1Ω/M′ 6.9Ω/km	.190	4.83	Duobond II* + 95% TC Braid 2.4Ω/M′ 7.8Ω/km	.300	7.62	50	86%	23.0	75.5	30	1.0	3.4
			1000	304.8	58.0	26.3											50	1.3	4.2
																	150	2.2	7.3
																	220	2.7	8.9
																	450	3.9	12.9
																	900	5.6	18.3
																	1500	7.3	24.0
																	1800	8.1	26.5
																	2000	8.6	28.2
																	2500	9.7	31.9
																	3000	10.8	35.4
																	4500	13.5	44.4
																	5800	15.8	51.8
																	6000	16.0	52.6



100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with Land Mobile Radio type connectors.**

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

**Please consult Belden's website, www.belden.com, for complete listing.

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Low Loss 50 Ohm Wireless RF Transmission Cable

RG-8 Type

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-8 Type • 10 AWG Solid .108″ Bare Copper-covered Aluminum Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket																			
RF400 80°C	**7810A**	—	500	152.4	42.5	19.3	10 AWG (solid) .108″ BCCA 1.34Ω/M′ 4.4Ω/km	.285	7.24	Duobond II* + 95% TC Braid 2.0Ω/M′ 9.2Ω/km	.403	10.23	50	86%	23.0	75.5	30	.7	2.1
			1000	304.8	86.0	39.0											50	.9	2.8
																	150	1.5	4.9
																	220	1.8	6.0
																	450	2.7	8.8
																	900	3.8	12.6
																	1500	5.1	16.6
																	1800	5.6	18.5
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.							2000	6.0	19.6
										Belden® The Wire in Wireless.							2500	6.7	22.0
																	3000	7.5	24.4
																	4500	9.5	31.1
Mates with 9913 and Land Mobile Radio type connectors.** Suitable for Outdoor and Direct Burial applications.																	5800	11.1	36.4
																	6000	11.4	37.3
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
RF400 80°C	**7810R***	NEC: CMR CEC: CMG FT4	500	152.4	47.0	21.3	10 AWG (solid) .108″ BCCA 1.34Ω/M′ 4.4Ω/km	.285	7.24	Duobond II* + 95% TC Braid 2.0Ω/M′ 9.2Ω/km	.403	10.23	50	86%	23.0	75.5	30	.7	2.1
			1000	304.8	79.0	35.8											50	.9	2.8
																	150	1.5	4.9
																	220	1.8	6.0
																	450	2.7	8.8
																	900	3.8	12.6
																	1500	5.1	16.6
																	1800	5.6	18.5
																	2000	6.0	19.6
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.							2500	6.7	22.0
										Belden® The Wire in Wireless.							3000	7.5	24.4
																	4500	9.5	31.1
Mates with 9913 and Land Mobile Radio type connectors.** Suitable for Outdoor applications.																	5800	11.1	36.4
																	6000	11.4	37.3
Gas-injected Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket																			
RF400 80°C	**7810WB**	—	500	152.4	39.5	17.9	10 AWG (solid) .108″ BCCA 1.34Ω/M′ 4.4Ω/km	.285	7.24	Duobond II* + 95% TC Braid 2.0Ω/M′ 9.2Ω/km	.403	10.23	50	86%	23.0	75.5	30	.7	2.1
			1000	304.8	80.0	36.3											50	.9	2.8
																	150	1.5	4.9
																	220	1.8	6.0
																	450	2.7	8.8
																	900	3.8	12.6
																	1500	5.1	16.6
																	1800	5.6	18.5
																	2000	6.0	19.6
										100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.							2500	6.7	22.0
										Belden® The Wire in Wireless.							3000	7.5	24.4
																	4500	9.5	31.1
Mates with 9913 and Land Mobile Radio type connectors.** Suitable for Outdoor and Direct Burial applications.																	5800	11.1	36.4
																	6000	11.4	37.3

BCCA = Bare Copper-covered Aluminum • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

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Low Loss 50 Ohm Wireless RF Transmission Cable

Series RF500

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
7 AWG Solid .142″ Bare Copper-covered Aluminum Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)																			
Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**7976A** new	—	500 1000	152.4 304.4	56.0 108.0	25.4 49.0	7 AWG (solid) .142″ BCCA .8Ω/M′ 2.7Ω/km	.370	9.40	Duobond II* + 90% TC Braid 1.6Ω/M′ 5.3Ω/km	.500	12.70	50	84%	25.1	82.4	30 50 150 220 450 900 1500 1800 2000 2500 3000 3500 4500 5800 6000	.6 .7 1.2 1.5 2.2 3.2 4.2 4.7 5.0 5.7 6.3 6.9 8.0 9.3 9.5	1.8 2.4 3.9 4.9 7.2 10.5 13.8 15.4 16.4 18.7 20.7 22.6 26.2 30.5 31.2
											100% Sweep tested. Belden® The Wire in Wireless.								
Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.																			
Foam HDPE Insulation • Black PVC Jacket																			
80°C	**7976R** new	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.4	67.5 131.0	30.6 59.5	7 AWG (solid) .142″ BCCA .8Ω/M′ 2.7Ω/km	.370	9.40	Duobond II* + 90% TC Braid 1.6Ω/M′ 5.3Ω/km	.500	12.70	50	84%	25.1	82.4	30 50 150 220 450 900 1500 1800 2000 2500 3000 3500 4500 5800 6000	.6 .7 1.2 1.5 2.2 3.2 4.2 4.7 5.0 5.7 6.3 6.9 8.0 9.3 9.5	1.8 2.4 3.9 4.9 7.2 10.5 13.8 15.4 16.4 18.7 20.7 22.6 26.2 30.5 31.2
											100% Sweep tested. Belden® The Wire in Wireless.								
Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.																			
Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket																			
80°C	**7976WB** new	—	500 1000	152.4 304.4	56.5 109.0	25.7 49.9	7 AWG (solid) .142″ BCCA .8Ω/M′ 2.7Ω/km	.370	9.40	Duobond II* + 90% TC Braid 1.6Ω/M′ 5.3Ω/km	.500	12.70	50	84%	25.1	82.4	30 50 150 220 450 900 1500 1800 2000 2500 3000 3500 4500 5800 6000	.6 .7 1.2 1.5 2.2 3.2 4.2 4.7 5.0 5.7 6.3 6.9 8.0 9.3 9.5	1.8 2.4 3.9 4.9 7.2 10.5 13.8 15.4 16.4 18.7 20.7 22.6 26.2 30.5 31.2
											100% Sweep tested. Belden® The Wire in Wireless.								
Suitable for Outdoor and Direct Burial applications and Aerial applications when supported by a Messenger wire.																			

BCCA = Bare Copper-covered Aluminum • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

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Low Loss 50 Ohm Wireless RF Transmission Cable

Series RF600

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
5.5 AWG Solid .176″ Bare Copper-covered Aluminum Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (85% Coverage)																			
Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**7977A** new	—	500 1000	152.4 304.8	73.5 145.0	33.4 65.8	5.5 AWG (solid) .176″ BCCA .5Ω/M′ 1.7Ω/km	.455	11.56	Duobond II* + 85% TC Braid 1.8Ω/M′ 5.9Ω/km	.590	14.99	50	85%	24.6	80.7	30 50 150 220 450 900 1500 1800 2000 2500 3000 3500 4500 5800 6000	.5 .6 1.0 1.2 1.7 2.5 3.4 3.8 4.0 4.6 5.1 5.6 6.4 7.6 7.8	1.5 2.0 3.2 3.9 5.6 8.3 11.2 12.4 13.2 15.0 16.6 18.2 21.1 24.8 25.4
											100% Sweep tested. Belden® The Wire in Wireless.								
Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.																			
Foam HDPE Insulation • Black PVC Jacket																			
80°C	**7977R** new	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	89.5 173.0	40.6 78.5	5.5 AWG (solid) .176″ BCCA .5Ω/M′ 1.7Ω/km	.455	11.56	Duobond II* + 85% TC Braid 1.8Ω/M′ 5.9Ω/km	.590	14.99	50	84%	24.6	80.7	30 50 150 220 450 900 1500 1800 2000 2500 3000 3500 4500 5800 6000	.5 .6 1.0 1.2 1.7 2.5 3.4 3.8 4.0 4.6 5.1 5.6 6.4 7.6 7.8	1.5 2.0 3.2 3.9 5.6 8.3 11.2 12.4 13.2 15.0 16.6 18.2 21.1 24.8 25.4
											100% Sweep tested. Belden® The Wire in Wireless.								
Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.																			
Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket																			
80°C	**7977WB** new	—	500 1000	152.4 304.8	74.0 146.0	33.6 66.3	5.5 AWG (solid) .176″ BCCA .5Ω/M′ 1.7Ω/km	.455	11.56	Duobond II* + 85% TC Braid 1.8Ω/M′ 5.9Ω/km	.590	14.99	50	85%	24.6	80.7	30 50 150 220 450 900 1500 1800 2000 2500 3000 3500 4500 5800 6000	.5 .6 1.0 1.2 1.7 2.5 3.4 3.8 4.0 4.6 5.1 5.6 6.4 7.6 7.8	1.5 2.0 3.2 3.9 5.6 8.3 11.2 12.4 13.2 15.0 16.6 18.2 21.1 24.8 25.4
											100% Sweep tested. Belden® The Wire in Wireless.								
Suitable for Outdoor and Direct Burial applications and Aerial applications when supported by a Messenger wire.																			

BCCA = Bare Copper-covered Aluminum • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

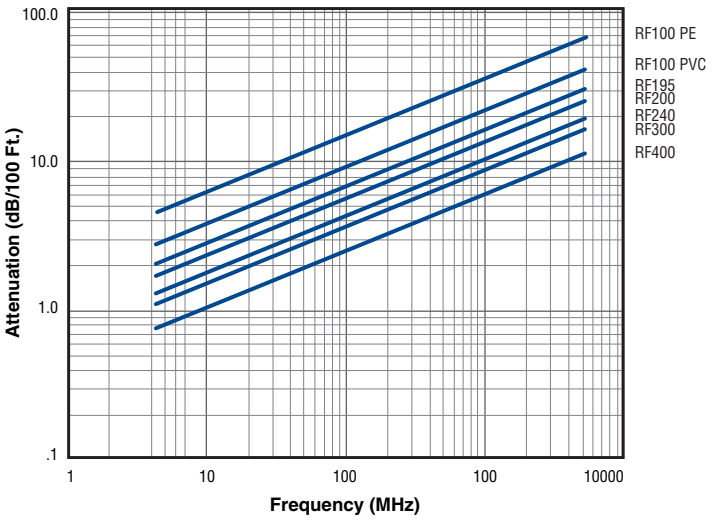
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

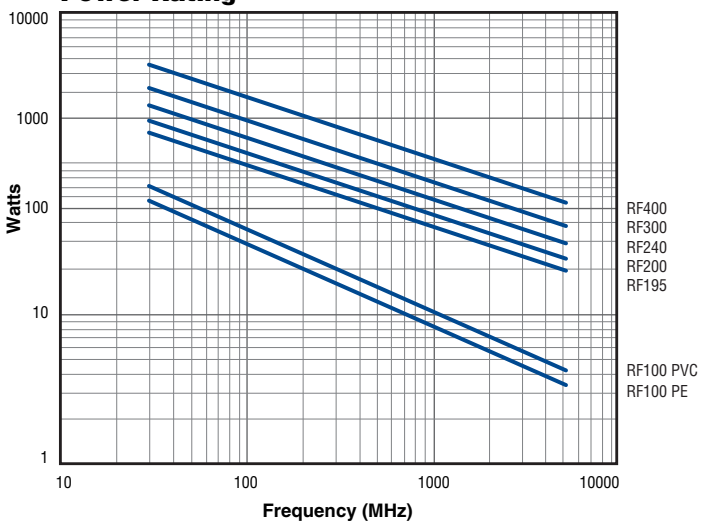
Low Loss 50 Ohm Wireless RF Transmission Coax

Electrical Characteristics

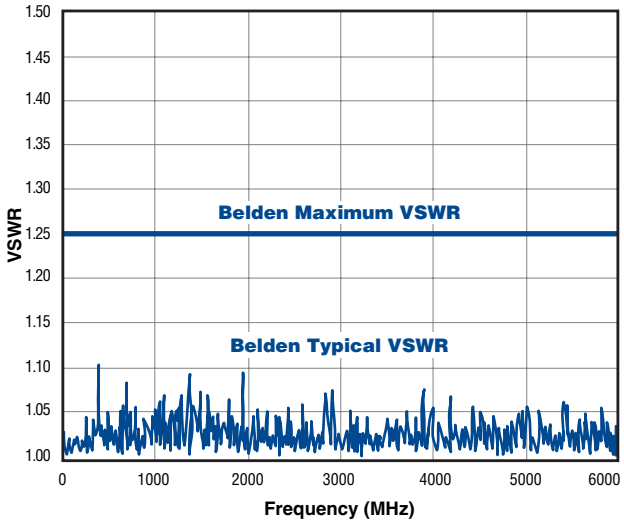
Attenuation



Power Rating



Guaranteed VSWR



Voltage Standing Wave Ratio is a measurement of the reflected power in a cable or instrument. The higher the VSWR the poorer the transmission characteristics of the cable.

Phase Stability

Phase Attribute	Typical Range (0.45 GHz to 6.0 GHz)	
	ppm/°C	Degree/GHz/m
Temperature (-40°C to +85°C)[1]	±9	±0.6
Bending & Flexing (25 cycles)[2]	NA	±1.1

1: Per IEC 60966-1 clause 8.8
2: Per IEC 60966-1 clause 8.6

RG Cable Replacement Guide

Part Number	Size	Replacing
7805	RF100A	RG-174/U
7805R	RF100LL	RG-174/U
7806A	RF195	RG-58/U
7807A	RF200	RG-58/U
7808A	RF240	RG-8X
7809A	RF300	RG-8X
7810A	RF400	RG-8U

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50 Ohm Transmission and Computer Cable

RG-188A/U, RG-174/U and RG-58/U Type

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
RG-174/U Type • 26 AWG Stranded (7x34) .019″ Bare Copper-covered Steel Conductor • Tinned Copper Braid Shield (90% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 75°C)	**8216**	—	100	30.5	1.1	.5	26 AWG (7x34) .019″ BCCS 97.0Ω/M′ 318.2Ω/km	.060	1.52	TC Braid 90% Shield Coverage 10.7Ω/M′ 35.1Ω/km	.110	2.79	50	66%	30.8	101.0	1	1.9	6.2
			500	152.4	5.0	2.3											10	3.3	10.8
			1000 ††	304.8	9.0	4.1											50	5.8	19.0
																	100	8.4	27.6
																	200	12.5	41.0
																	400	19.0	62.3
																	700	27.0	88.6
																	900	31.0	101.7
																	1000	34.0	111.5
RG-188A/U Type • 26 AWG Stranded (7x34) .020″ Silver-plated Copper-covered Steel Conductor • SPC Braid Shield (96% Coverage)																			
TFE Teflon® Insulation • White TFE Tape Jacket																			
200°C VW-1	**83269**	—	100 †	30.5	2.0	.9	26 AWG (7x34) .020″ SCCCS 91.2Ω/M′ 299.2Ω/km	.058	1.47	SPC Braid 96% Shield Coverage 8.5Ω/M′ 27.9Ω/km	.098	2.49	50	69.5%	29.0	95.1	1	1.2	3.9
			500 †	152.4	6.5	2.9											10	2.7	8.9
			1000 †	304.8	12.0	5.5											50	5.6	18.4
																	100	8.3	27.2
																	200	12.0	39.4
																	400	17.5	57.4
																	700	23.7	77.8
																	900	27.3	89.6
MIL-C-17D																	1000	29.0	95.1
RG-58/U Type • 20 AWG Solid .033″ Bare Copper Conductor • Bare Copper Braid Shield (78% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
80°C	**9201**	—	U-500	U-152.4	13.0	5.9	20 AWG (solid) .033″ BC 10.0Ω/M′ 33.1Ω/km	.116	2.95	BC Braid 78% Shield Coverage 5.5Ω/M′ 18.0Ω/km	.193	4.90	51.5	66%	28.5	93.5	1	.3	1.1
			500	152.4	11.5	5.2											10	1.1	3.6
			U-1000	U-304.8	25.0	11.4											50	2.5	8.2
			1000	304.8	23.0	10.4											100	3.8	12.5
																	200	5.6	18.4
																	400	8.4	27.6
																	700	11.7	38.4
																	900	13.7	44.9
																	1000	14.5	47.6
RG-58/U Type • 20 AWG Solid .033″ Bare Copper Conductor • Duobond® II + Tinned Copper Braid Shield (55% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 60°C)	**9310****	—	500	152.4	10.5	4.8	20 AWG (solid) .033″ BC 9.4Ω/M′ 28.6Ω/km	.114	2.90	Duobond II* + 55% TC Braid 8.0Ω/M′ 24.4Ω/km	.193	4.90	50	66%	30.8	101.0	1	.5	1.5
			U-1000	U-304.8	22.0	10.0											10	1.4	4.6
			1000	304.8	21.0	9.5											50	2.8	9.2
																	100	3.8	12.5
																	200	5.4	17.7
																	400	7.9	25.9
																	700	11.1	36.4
																	900	12.8	42.0
																	1000	13.9	45.6

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • SCCCS = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper • TC = Tinned Copper • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).
**See Belden's website, www.belden.com, for connector information.
†May contain more than one piece, min. length of any one piece is 25 ft.
††May contain more than one piece, min. length of any one piece is 100 ft. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

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50 Ohm Transmission and Computer Cable

RG-58A/U Type

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
RG-58A/U Type • 20 AWG Stranded (19x32) .037″ Tinned Copper Conductor • Tinned Copper Braid Shield (96% Coverage)																			
Foam Polyethylene Insulation • Black or White PVC Jacket																			
UL AWM Style 1354 (30V 80°C)	**8219**	NEC: CM CEC: CM	U-500 500▲ U-1000▲ 1000	152.4 152.4 U-304.8 304.8	13.5 13.0 27.0 26.0	6.1 6.0 12.3 11.8	20 AWG (19x32) .037″ TC 8.8Ω/M′ 28.9Ω/km	.114	2.90	TC Braid 96% Shield Coverage 4.1Ω/M′ 13.4Ω/km	.194	4.93	53.5	73%	26.5	86.9	1 10 50 100 200 400 700 900 1000	.4 1.3 3.1 4.5 6.6 10.0 14.2 16.6 18.1	1.2 4.3 10.2 14.8 21.7 32.8 46.6 54.5 59.4
P-MSHA • SC-182/5** ▲500 ft. and U-1000 ft. put-ups available in Black only. Black jacket suitable for Aerial (when supported by a messenger) and Outdoor applications.																			
RG-58A/U Type • 20 AWG Stranded (19x32) .037″ Tinned Copper Conductor • Duobond® II* + Tinned Copper Braid Shield (55% Coverage)																			
Foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C)	**9311****	NEC: CM CEC: CM	500 U-1000 1000	152.4 U-304.8 304.8	10.5 23.0 21.0	4.8 10.5 9.5	20 AWG (19x32) .037″ TC 8.8Ω/M′ 28.9Ω/km	.114	2.90	Duobond II* + 55% TC Braid 17.0Ω/M′ 55.8Ω/km	.193	4.90	52	75%	26.0	85.3	1 10 50 100 200 400 700 900 1000	.5 1.5 2.9 4.0 5.7 8.5 12.2 14.5 15.8	1.6 4.9 9.5 13.1 18.7 27.9 40.0 47.6 51.8
RG-58A/U Type • 20 AWG Stranded (19x33) .035″ Tinned Copper Conductor • Tinned Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
75°C	**8259**	—	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.5 13.5 13.5 25.0 26.0	1.6 6.1 6.1 11.3 11.8	20 AWG (19x33) .035″ TC 10.8Ω/M′ 35.4Ω/km	.116	2.95	TC Braid 95% Shield Coverage 4.1Ω/M′ 13.4Ω/km	.192	4.88	50	66%	30.8	101.0	1 10 50 100 200 400 700 900 1000	.4 1.5 3.7 5.4 8.1 12.4 17.7 21.1 22.8	1.4 4.9 12.1 17.7 26.6 40.7 58.1 69.2 74.8
Suitable for Aerial (when supported by a messenger) and Outdoor applications.																			
RG-58A/U Type • 20 AWG Solid Bare Copper Conductor • Tinned Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C) VW-1	**8240**	NEC: CMX CEC: CMX	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.6 14.0 13.0 27.0 26.0	1.6 6.4 5.9 12.3 11.8	20 AWG (solid) .033″ BC 10.0Ω/M′ 32.8Ω/km	.116	2.95	TC Braid 95% Shield Coverage 4.1Ω/M′ 13.4Ω/km	.193	4.90	51.5	66%	28.5	93.5	1 10 50 100 200 400 700 900 1000	.3 1.1 2.5 3.8 5.6 8.4 11.7 13.7 14.5	1.1 3.6 8.2 12.5 18.4 27.6 38.4 44.9 47.6
For Plenum versions of 8240, see 88240 or 82240.																			
Suitable for Aerial (when supported by a messenger) and Outdoor applications.																			
Plenum • FEP Teflon® Insulation • Black FEP Teflon Jacket																			
200°C	**88240**	NEC: CMP CEC: CMP FT6	500† 1000†	152.4 304.8	12.0 24.0	5.4 10.9	20 AWG (solid) .032″ BC 10.2Ω/M′ 33.5Ω/km	.107	2.72	TC Braid 95% Shield Coverage 6.7Ω/M′ 22.0Ω/km	.159	4.04	53.5	69.5%	26.4	86.6	1 10 50 100 200 400 700 900 1000	.5 1.2 3.0 4.3 6.4 9.7 13.7 16.1 17.3	1.6 3.9 9.8 14.2 21.0 31.7 45.0 52.8 56.6
Plenum • FEP Teflon Insulation • Natural Flamarrest® Jacket																			
75°C	**82240**	NEC: CMP CEC: CMP FT6	U-500† U-1000† 1000†	152.4 U-304.8 304.8	13.5 26.0 24.0	6.1 11.8 10.9	20 AWG (solid) .032″ BC 10.2Ω/M′ 33.5Ω/km	.107	2.72	TC Braid 95% Shield Coverage 6.7Ω/M′ 22.0Ω/km	.159	4.04	53.5	69.5%	26.4	86.6	1 10 50 100 200 400 700 900 1000	.5 1.2 3.0 4.3 6.4 9.7 13.7 16.1 17.3	1.6 3.9 9.8 14.2 21.0 31.7 45.0 52.8 56.6

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

**Pennsylvania Department of Environmental Resource and United States Mine Safety and Health Administration certification.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotation of RG/U cables not listed.

See Belden's website, www.belden.com, for connector information.

Teflon is a DuPont trademark.

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50 Ohm Transmission and Computer Cable

RG-8X and RG-8/U Type

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-8X Type • 16 AWG Stranded (19x29) .058″ Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)																			
Gas-injected FPE Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C)	**9258**	NEC: CM CEC: CM	U-500 500 U-1000 1000▲	U-152.4 152.4 U-304.8 304.8	20.0 18.5 39.0 40.0	9.1 8.4 17.7 18.2	16 AWG (19x29) .058″ BC 4.3Ω/M′ 14.1Ω/km	.155	3.94	BC Braid 95% Shield Coverage 3.3Ω/M′ 10.8Ω/km	.242	6.15	50	82%	24.8	75.6	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.1 4.5 6.6 9.1 10.7 11.2	1.0 3.0 6.9 10.2 14.8 21.7 29.9 35.1 36.7
▲1000 ft. put-up also available in White. Suitable for Outdoor and Aerial applications.																			
RG-8/U Type • 13 AWG Stranded (7x21) .085″ Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
75°C	**8237**	NEC: CMH CEC: CMH FT1	100 500 1000	30.5 152.4 304.8	13.6 58.0 114.0	6.2 26.3 51.7	13 AWG (7x21) .085″ BC 1.9Ω/M′ 6.2Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.2Ω/M′ 3.9Ω/km	.405	10.29	52	66%	28.5	93.5	1 10 50 100 200 400 700 900 1000 4000	.2 .6 1.3 1.9 2.8 4.2 5.9 6.9 7.4 23.2	.5 1.8 4.3 6.2 9.2 13.8 19.4 22.6 24.3 76.1
JAN-C-17A Suitable for Outdoor and Aerial applications.																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
UL AWM Style 1354 (30V 60°C)	**9251**	NEC: CMX CEC: CMX	500 1000	152.4 304.8	58.0 115.0	26.3 52.3	13 AWG (7x21) .085″ BC 1.9Ω/M′ 6.2Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.2Ω/M′ 3.9Ω/km	.405	10.29	52	66%	28.5	93.5	1 10 50 100 200 400 700 900 1000 4000	.2 .6 1.3 1.9 2.8 4.2 5.9 6.9 7.4 23.2	.5 1.8 4.3 6.2 9.2 13.8 19.4 22.6 24.3 76.1
MIL-C-17D																			
RG-8/U Type • 11 AWG Stranded (7x19) .108″ Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)																			
Foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C)	**8214**	NEC: CM CEC: CM	100 500 1000	30.5 152.4 304.8	14.2 61.0 121.0	6.5 27.7 55.0	11 AWG (7x19) .108″ BC 1.2Ω/M′ 3.9Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.403	10.24	50	78%	26	85.3	1 10 50 100 200 400 700 900 1000 4000	.1 .5 1.2 1.7 2.6 3.9 5.6 6.5 7.0 21.5	.5 1.7 3.9 5.6 8.5 12.8 18.4 21.3 23.0 70.5
Suitable for Outdoor and Aerial applications.																			

BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • HDPE = High-density Polyethylene • TC = Tinned Copper

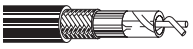
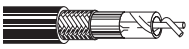
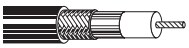
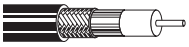
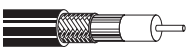
Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

50 Ohm Transmission and Computer Cable

RG-8/U Type

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-8/U Type • 10 AWG Solid .108″ Bare Copper Conductor • Duobond® II + Tinned Copper Braid Shield (90% Coverage)																			
Semi-solid Polyethylene Insulation • Black PVC Jacket																			
Low Loss 80°C	**9913**	—	100 250 500 1000	30.5 76.2 152.4 304.8	14.2 31.8 57.0 116.0	6.4 14.4 25.9 52.6	10 AWG (solid) .108″ BC .9Ω/M′ 3.0Ω/km	.286	7.26	Duobond II* + 90% TC Braid 1.8Ω/M′ 5.9Ω/km	.405	10.29	50	84%	24.6	80.7	1 10 50 100 200 400 700 900 1000 4000	.3 .5 1.0 1.4 1.8 2.6 3.6 4.1 4.4 9.5	1.0 1.7 3.3 4.6 6.0 8.5 11.8 13.5 14.4 31.1
											For Plenum version of 9913, see 89913.								
Suitable for Outdoor and Aerial applications.																			
Plenum • Semi-solid FEP Insulation • Black Fluorocopolymer Jacket																			
150°C	**89913**	NEC: CMP CEC: CMP FT6	500† 1000†	152.4 304.8	63.0 128.0	28.6 58.2	10 AWG (solid) .108″ BC .9Ω/M′ 3.0Ω/km	.295	7.49	Duobond II* + 90% TC Braid 1.8Ω/M′ 5.9Ω/km	.364	9.25	50	83%	25.0	82.0	1 10 50 100 200 400 700 900 1000 4000	.1 .4 1.0 1.6 2.3 3.4 5.0 6.0 6.9 17.0	.3 1.3 3.3 5.2 7.5 11.1 16.4 19.7 22.6 55.8
																			
RG-8/U Type • 10 AWG Stranded (7x19) .108″ Bare Copper Conductor • Duobond II + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Matte Black Belflex® Jacket																			
Low Loss High-Flex 80°C	**9913F7**	—	100 250 500 1000	30.5 76.2 152.4 304.8	12.5 27.8 52.5 104.0	5.7 12.6 23.8 47.2	10 AWG (7x19) .108″ BC 1.1Ω/M′ 3.7Ω/km	.285	7.24	Duobond II* + 95% TC Braid 1.8Ω/M′ 5.9Ω/km	.405	10.29	52	85%	22.5	80.7	1 10 50 100 200 400 700 900 1000 4000	.4 .6 1.1 1.5 2.0 3.0 4.0 4.7 5.0 12.1	1.3 2.0 3.6 4.9 6.6 9.8 13.1 15.4 16.4 39.7
																			
Suitable for Outdoor and Aerial applications.																			
RG-8/U Type • 10 AWG Solid .103″ Bare Copper Conductor • Duobond II + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
Low Loss UL AWM Style 1354 (30V 80°C)	**9914**	NEC: CMG CEC: CMG FT4	500 1000	152.4 304.8	56.0 114.0	25.4 51.7	10 AWG (solid) .103″ BC 1.8Ω/M′ 3.9Ω/km	.285	7.24	Duobond II* + 95% TC Braid 1.1Ω/M′ 3.6Ω/km	.403	10.24	50	82%	24.8	81.4	1 10 50 100 200 400 700 900 1000 4000	.4 .5 1.0 1.4 1.8 2.6 3.6 4.1 4.4 9.9	1.3 1.7 3.3 4.6 6.0 8.5 11.8 13.5 14.4 32.5
																			
Suitable for Outdoor and Aerial applications.																			
RG-8/U Type • 10 AWG Solid .108″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)																			
Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket																			
Low Loss 125°C	**7733A**	NEC: CMP CEC: CMP FT6	500 1000	152.4 304.8	53.5 105.0	24.3 47.7	10 AWG (solid) .108″ BC .9Ω/M′ 3.0Ω/km	.280	7.11	Duofoil + 90% TC Braid 1.8Ω/M′ 5.9Ω/km	.355	9.01	50	84%	24.2	79.4	1 10 50 100 200 400 700 900 1000 4000	.1 .4 1.1 1.5 2.1 3.2 4.5 5.7 5.9 14.1	.3 1.3 3.6 4.9 6.9 10.5 14.8 18.7 19.4 46.3
																			
Suitable for Outdoor and Aerial applications.																			

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

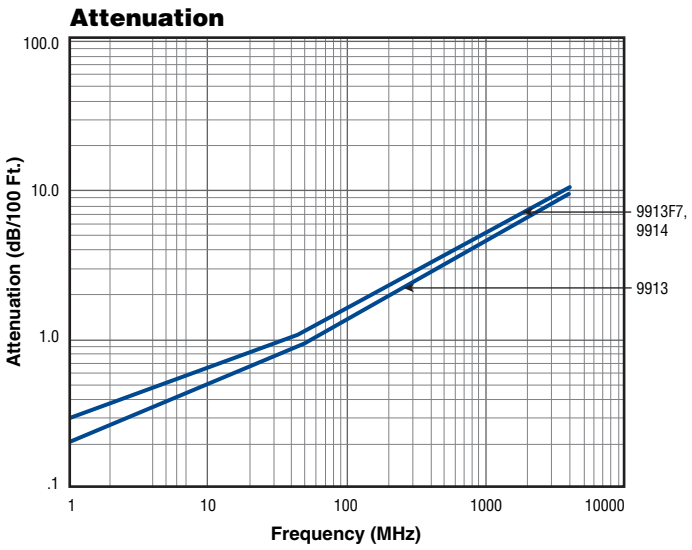
*Duobond II = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage).
†Spools are one piece, but length may vary ±10% from length shown.

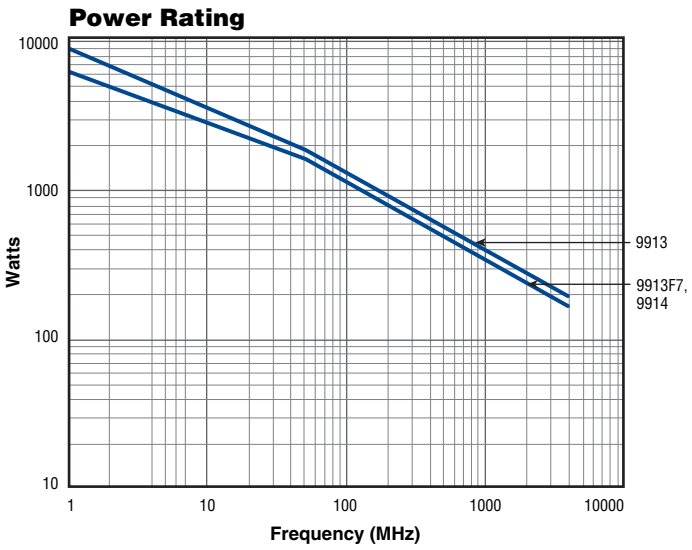
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

50 Ohm Transmission Cable

Electrical Characteristics of 9913, 9913F7 and 9914





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Conformable® Coax Cable

50 Ohm Microwave Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
M17/151 Type • 29 AWG Solid .011″ Silver-plated Copper-covered Steel Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon® Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C)	**1674A***	—	50 100 500 1000	15.2 30.5 152.4 304.8	.2 .4 2.0 5.0	.1 .2 .9 2.3	29 AWG (solid) .011″ SPCCS 205.0Ω/M′ 672.4Ω/km	.034	.85	CT Composite 100% Shield Coverage 8.0Ω/M′ 26.2Ω/km	.047	1.19	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	25.0 36.7 53.8 67.3 89.2 107.5 130.9 163.8 181.1 192.0	82.0 120.3 176.5 220.8 292.8 352.6 429.5 537.4 594.3 630.0
M17/151 Type • 29 AWG Solid .011″ Silver-plated Copper Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C)	**1674B***	—	100†† 500†† 1000††	30.5 152.4 304.8	.4 2.0 5.0	.2 .9 2.3	29 AWG (solid) .011″ SPC 81.2Ω/M′ 266.4Ω/km	.034	.85	CT Composite 100% Shield Coverage 8.0Ω/M′ 26.2Ω/km	.047	1.19	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	25.0 36.7 53.8 67.3 89.2 107.5 130.9 163.8 181.1 192.0	82.0 120.3 176.5 220.8 292.8 352.6 429.5 537.4 594.3 630.0
RG-405/U Type • 24 AWG Solid .020″ Silver-plated Copper-covered Steel Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C)	**1671A***	—	50 100 500† 1000†	15.2 30.5 152.4 304.8	2.0 2.5 7.5 14.0	.9 1.1 3.4 6.4	24 AWG (solid) .020″ SPCCS 64.2Ω/M′ 210.6Ω/km	.062	1.57	CT Composite 100% Shield Coverage 10.2Ω/M′ 33.5Ω/km	.085	2.16	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	15.0 22.2 32.8 41.2 54.9 66.4 81.2 102.0 113.0 120.0	49.2 72.8 107.6 135.2 180.1 217.9 266.4 334.7 370.8 393.7
Suitable for Outdoor applications.																			
TFE Teflon Insulation • PVC Jacket (Black or Clear)																			
UL AWM Style 10245 (30V 105°C)	**1671J***	—	100†▲ 500† 1000†	30.5 152.4 304.8	2.9 9.5 17.0	1.3 4.7 7.7	24 AWG (solid) .020″ SPCCS 64.2Ω/M′ 210.6Ω/km	.062	1.57	CT Composite 100% Shield Coverage 10.2Ω/M′ 33.5Ω/km	.127	3.23	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	15.0 22.2 32.8 41.2 54.9 66.4 81.2 102.0 113.0 120.0	49.2 72.8 107.6 135.2 180.1 217.9 266.4 334.7 370.8 393.7
▲100 ft. put-up available in Black only. Suitable for Outdoor applications.																			
RG-405/U Type • 24 AWG Solid .020″ Silver-plated Copper Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C)	**1671B**	—	500†† 1000††	152.4 304.8	7.0 13.0	3.2 6.0	24 AWG (solid) .020″ SPC 25.7Ω/M′ 84.3Ω/km	.062	1.57	CT Composite 100% Shield Coverage 10.2Ω/M′ 33.5Ω/km	.085	2.16	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	15.0 22.2 32.8 41.2 54.9 66.4 81.2 102.0 113.0 120.0	49.2 72.8 107.6 135.2 180.1 217.9 266.4 334.7 370.8 393.7
Suitable for Outdoor applications.																			

CT = Copper-Tin • DCR = DC Resistance • SPC = Silver-plated Copper • SPCCS = Silver-coated Copper-covered Steel • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

†250 ft. put-up: Exact 3 pieces (maximum), 50 feet minimum length
500 ft. put-up: Exact 5 pieces (maximum), 50 feet minimum length
1000 ft. put-up: Exact 8 pieces (maximum), 50 feet minimum length

††May contain more than one piece. Min. length of any one piece is 25 ft.

Teflon is a Dupont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Conformable® Coax Cable

50 Ohm Microwave Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-402/U Type • 19 AWG Solid .036″ Silver-plated Copper-covered Steel Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon® Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C)	**1673A***	—	50	15.2	3.3	1.5	19 AWG (solid) .036″ SPCCS 20.5Ω/M′ 67.3Ω/km	.116	2.95	CT Composite 100% Shield Coverage 4.5Ω/M′ 14.8Ω/km	.138	3.51	50	69.5%	29.5	96.8	500	8.0	26.2
			100	30.5	3.9	1.8											1000	12.0	39.4
			250†	76.2	8.0	3.6											2000	18.1	59.4
			500	152.4	15.0	6.8											3000	22.9	75.1
																	5000	31.0	101.7
																	7000	37.8	124.0
																	10000	46.6	152.9
																	15000	59.1	193.9
																	18000	65.8	215.9
																	20000	70.0	229.7
TFE Teflon Insulation • Black PVC Jacket																			
UL AWM Style 10245 (30V 105°C)	**1673J***	—	100	30.5	5.1	2.3	19 AWG (solid) .036″ SPCCS 20.5Ω/M′ 67.3Ω/km	.116	2.95	CT Composite 100% Shield Coverage 4.5Ω/M′ 14.8Ω/km	.178	4.52	50	69.5%	29.5	96.8	500	8.0	26.2
			500†	152.4	17.5	8.0											1000	12.0	39.4
																	2000	18.1	59.4
																	3000	22.9	75.1
																	5000	31.0	101.7
																	7000	37.8	124.0
																	10000	46.6	152.9
																	15000	59.1	193.9
																	18000	65.8	215.9
																	20000	70.0	229.7
RG-402/U Type • 19 AWG Solid .036″ Silver-plated Copper Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C)	**1673B***	—	100††	30.5	3.9	1.8	19 AWG (solid) .036″ SPC 7.9Ω/M′ 25.9Ω/km	.116	2.95	CT Composite 100% Shield Coverage 4.5Ω/M′ 14.8Ω/km	.138	3.51	50	69.5%	29.5	96.8	500	8.0	26.2
			250††	76.2	8.0	3.6											1000	12.0	39.4
			500††	152.4	14.5	6.6											2000	18.1	59.4
																	3000	22.9	75.1
																	5000	31.0	101.7
																	7000	37.8	124.0
																	10000	46.6	152.9
																	15000	59.1	193.9
																	18000	65.8	215.9
																	20000	70.0	229.7
RG-401/U Type •14 AWG Solid .065″ Silver-plated Copper Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C)	**1675A***	—	50†	15.2	4.1	1.8	14 AWG (solid) .065″ SPC 2.5Ω/M′ 8.2Ω/km	.210	5.33	CT Composite 100% Shield Coverage 8.0Ω/M′ 26.2Ω/km	.246	6.25	50	69.5%	29.6	97.1	400	3.8	12.5
			100††	30.5	8.1	3.7											500	4.4	14.4
			250††	76.2	20.3	9.2											1000	6.8	22.3
			500††	152.4	40.5	18.4											2000	10.4	34.1
																	3000	13.4	44.0
																	5000	18.5	60.7
																	7000	22.8	74.8
																	10000	28.4	93.2
																	15000	36.6	120.1
																	18000	41.0	134.5

CT = Copper-Tin • DCR = DC Resistance • SPCCS = Silver-plated Copper-covered Steel • SPC = Silver-plated Copper • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

* Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

†250 ft. put-up: Exact 3 pieces (maximum), 50 feet minimum length
500 ft. put-up: Exact 5 pieces (maximum), 50 feet minimum length
1000 ft. put-up: Exact 8 pieces (maximum), 50 feet minimum length

††May contain more than one piece, minimum length of any one piece is 25 ft.

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Conformable® Coax Cable

75 Ohm High-Frequency Video Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
29 AWG Solid .011″ Silver-coated Copper-covered Steel Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon® Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C)	**1672A***	—	500†	152.4	7.5	3.4	29 AWG (solid) .011″ SCCCS 205.0Ω/M′ 672.4Ω/km	.062	1.58	CT Composite 100% Shield Coverage 10.0Ω/M′ 32.8Ω/km	.087	2.21	75	69.5%	19.5	64.0	1	1.6	5.3
			1000†	304.8	14.0	6.4											10	1.8	5.9
																	50	4.1	13.5
																	100	6.5	21.3
																	200	9.0	29.5
																	400	12.8	42.0
																	700	18.0	59.1
																	1000	22.1	72.5
TFE Teflon Insulation • PVC Jacket (Black or Clear)																			
UL AWM Style 10245 (30V 105°C)	**1672J***	—	100††▲	30.5	3.1	1.4	29 AWG (solid) .011″ SCCCS 205.0Ω/M′ 672.6Ω/km	.062	1.58	CT Composite 100% Shield Coverage 10.0Ω/M′ 32.8Ω/km	.127	3.23	75	69.5%	19.5	64.0	1	1.6	5.3
			500††	152.4	9.5	4.3											10	1.8	5.9
			1000†	304.8	17.0	7.7											50	4.1	13.5
																	100	6.5	21.3
																	200	9.0	29.5
																	400	12.8	42.0
																	700	18.0	59.1
																	1000	22.1	72.5

▲100 ft. put-up available in Clear only.

29 AWG Solid .011″ Silver-plated Copper Conductor • Copper-Tin Composite Shield (100% Coverage)

TFE Teflon Insulation • Unjacketed

UL AWM Style 10245 (30V 105°C)	**1672B***	—	100††	30.5	2.5	1.1	29 AWG (solid) .011″ SPC 11.0Ω/M′ 36.1Ω/km	.062	1.58	CT Composite 100% Shield Coverage 10.0Ω/M′ 32.8Ω/km	.087	2.21	75	69.5%	19.5	64.0	1	1.6	5.3
			500††	152.4	7.5	3.4											10	1.8	5.9
			1000††	304.8	14.0	6.4											50	4.1	13.5
																	100	6.5	21.3
																	200	9.0	29.5
																	400	12.8	42.0
																	700	18.0	59.1
																	1000	22.1	72.5

Non-ferrous design.

CT = Copper Tin • DCR = DC Resistance • SCCCS = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper • TFE = Tetra Fluoroethylene

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1000 ft. put-up: Exact 8 pieces (maximum), 50 feet minimum length

††May contain more than 1 piece, minimum length of any one piece is 25 ft.

Teflon is a DuPont trademark.

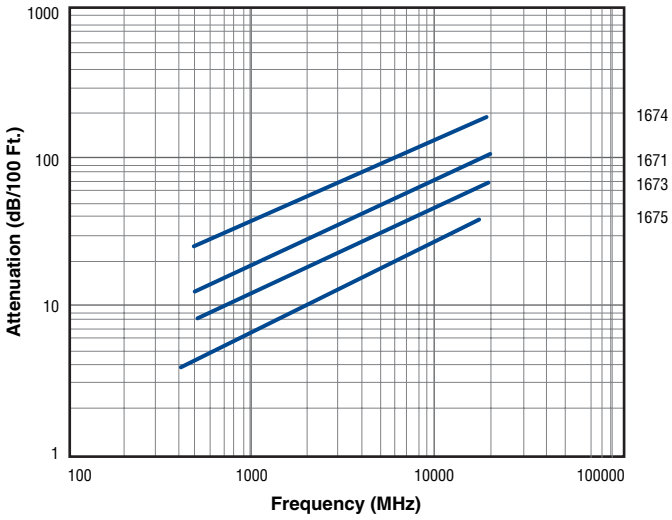
견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

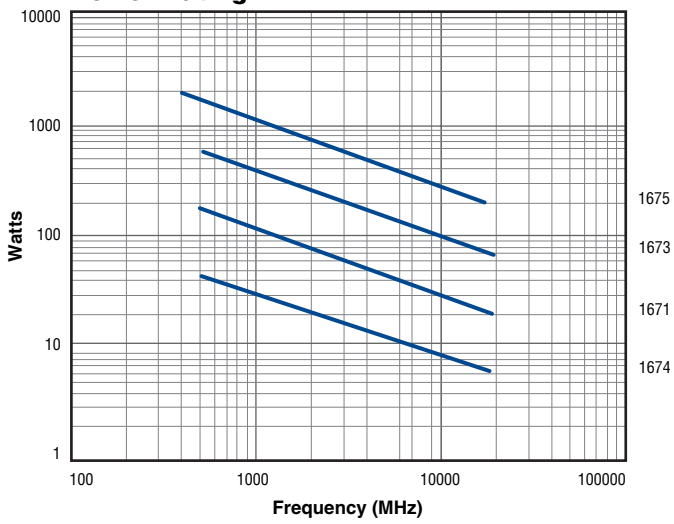
Conformable® Coax Cable

Electrical Characteristics

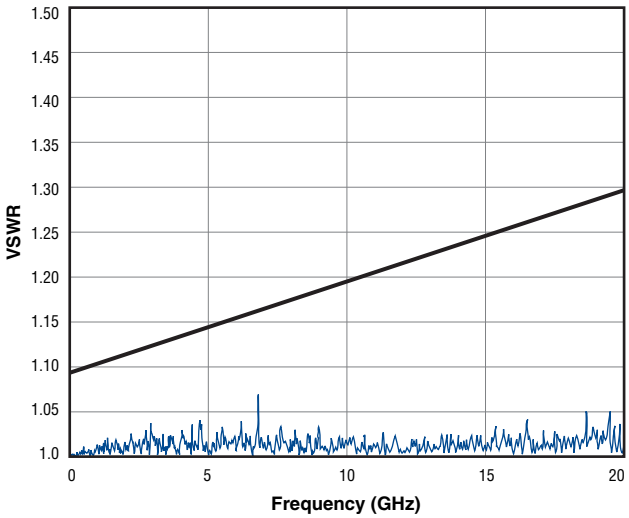
Attenuation



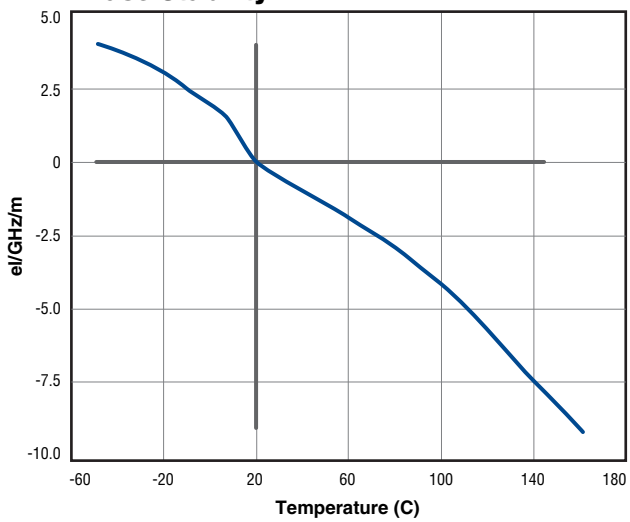
Power Rating



Guaranteed VSWR



Phase Stability



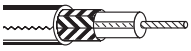
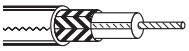
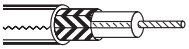
Conformable Coax cable is an alternative to semi-rigid and flexible coax for “black box” applications involving internal, head-end wiring of electronic equipment, delay lines, and high-frequency applications.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

MIL-C-17G QPL Cable

50 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
30 AWG Stranded (7x38) .012″ Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (96% Coverage)																			
TFE Teflon® Insulation • White FEP Jacket																			
200°C VW-1	**83265**	—	100† 500† 1000†	30.5 152.4 304.8	.8 4.0 6.0	.4 1.6 3.2	30 AWG (7x38) .012″ SPCCS 244.0Ω/M′ 801.0Ω/km	.033	.84	SPC Braid 96% Shield Coverage 14.6Ω/M′ 47.9Ω/km	.071	1.80	50	69.5%	29.0	95.1	1 10 50 100 200 400 700 900 1000	2.6 5.6 10.5 14.0 19.0 28.0 37.0 42.5 46.0	8.5 18.4 34.5 45.9 62.3 91.9 121.4 139.4 150.9
																			
M17/169-00001 (RG-178B/U). Non-SWR swept version of RG-178.																			
26 AWG Stranded (7x34) .020″ Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (95% Coverage)																			
TFE Teflon Insulation • White FEP Jacket																			
200°C VW-1	**83284**	—	100† 500† 1000†	30.5 152.4 304.8	1.2 5.5 11.0	.5 2.7 5.0	26 AWG (7x34) .020″ SPCCS 84.1Ω/M′ 275.9Ω/km	.058	1.47	SPC Braid 95% Shield Coverage 6.5Ω/M′ 21.3Ω/km	.098	2.49	50	69.5%	29.0	95.1	1 10 50 100 200 400 700 900 1000	1.2 2.7 5.6 8.3 12.0 17.5 23.7 27.3 29.0	3.9 8.9 18.4 27.2 39.4 57.4 77.8 89.6 95.1
																			
M17/172-00001 (RG-316/U). Non-SWR swept version of RG-316.																			
TFE Teflon Insulation • Brown FEP Jacket																			
200°C VW-1	**84316**	—	100† 500† 1000†	30.5 152.4 304.8	1.2 5.5 11.0	.5 2.5 5.0	26 AWG (7x34) .020″ SPCCS 84.1Ω/M′ 275.9Ω/km	.058	1.47	SPC Braid 95% Shield Coverage 6.5Ω/M′ 21.3Ω/km	.098	2.49	50	69.5%	29.0	95.1	1 10 50 100 200 400 700 900 1000	1.2 2.7 5.6 8.3 12.0 17.5 23.7 27.3 29.0	3.9 8.9 18.4 27.2 39.4 57.4 77.8 89.6 95.1
																			
M17/113-RG316																			
22 AWG Stranded (27x36) .030″ Tinned Copper Conductor • Tinned Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
UL AWM Style 1354 (30V 80°C) VW-1	**9252**	NEC: CMX CEC: CMX	1000	304.8	18.0	8.2	22 AWG (27x36) .030″ TC 17.1Ω/M′ 56.1Ω/km	.096	2.44	TC Braid Shield 95% Shield Coverage 5.2Ω/M′ 17.1Ω/km	.160	4.06	50	66%	30.8	101.0	1 10 50 100 200 400 700 900 1000	.4 1.7 4.5 7.0 11.0 16.5 23.5 27.3 29.0	1.3 5.6 14.8 23.0 36.1 54.1 77.1 89.6 95.1
																			
M17/157-00001 (RG-122/U). Non-SWR swept version of RG-122.																			

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • SPC = Silver-plated Copper • SPCCS = Silver-plated Copper-covered Steel • TC = Tinned Copper • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

†May contain more than one piece, minimum length of any one piece is 25 ft.

Teflon is a DuPont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

MIL-C-17G QPL Cable

50 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
20 AWG Stranded (19x33) .035″ Tinned Copper Conductor • Tinned Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
85°C	**9203**	—	500	152.4	12.5	5.7	20 AWG	.116	2.95	TC Braid	.195	4.95	50	66%	30.8	101.0	1	.4	1.3
			1000	304.8	25.0	12.3	(19x33)			95% Shield							10	1.4	4.6
							.035″			Coverage							50	3.3	10.8
							TC			4.1Ω/M′							100	4.9	16.1
							10.8Ω/M′			13.5Ω/km							200	7.3	24.0
							35.4Ω/km										400	11.5	37.7
																	700	17.0	55.8
																	900	20.0	65.6
M17/28-RG58																	1000	21.5	70.5
85°C	**8262**	—	U-500	U-152.4	13.5	6.1	20 AWG	.115	2.92	TC Braid	.195	4.95	50	66%	30.8	101.0	1	.4	1.3
			500	152.4	12.5	5.7	(19x33)			95% Shield							10	1.4	4.6
			U-1000	U-304.8	26.0	11.8	.035″			Coverage							50	3.3	10.8
			1000	304.8	25.0	11.3	TC			4.1Ω/M′							100	4.9	16.1
							10.8Ω/M′			13.5Ω/km							200	7.3	24.0
							35.4Ω/km										400	11.5	37.7
																	700	17.0	55.8
																	900	20.0	65.6
M17/155-00001 (RG-58C/U). Non-SWR swept version of RG-58.																	1000	21.5	70.5
19 AWG Solid .034″ Silver-coated Copper Conductor • Double Silver-coated Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
UL AWM	**9273**	NEC:	100	30.5	4.7	2.1	19 AWG	.117	2.97	(2) SCC	.212	5.39	50	66%	30.8	101.0	1	.4	1.3
Style 1354		CMX	U-500	U-152.4	20.0	9.1	(solid)			Braids							10	1.2	3.9
(30V 60°C)		CEC:	500	152.4	18.5	8.4	.034″			95% Shield							50	2.8	9.2
		CMX	U-1000	U-304.8	39.0	17.7	SCC			Coverage							100	4.1	13.5
			1000	304.8	37.0	16.8	8.8Ω/M′			2.5Ω/M′							200	6.0	19.7
							28.9Ω/km			8.2Ω/km							400	8.8	28.9
																	700	12.0	39.4
																	900	13.8	45.3
M17/167-00001 (RG-223/U). Non-SWR swept version of RG-223.																	1000	14.5	47.6
18 AWG Solid .037″ Silver-coated Copper-covered Steel Conductor • Double Silver-coated Copper Braid Shield (96% Coverage)																			
Plenum • TFE Teflon® Insulation • Tinted Brown FEP Jacket																			
200°C	**84142**	NEC:	100	30.5	5.0	2.3	18 AWG	.116	2.95	(2) SCC	.195	4.95	50	70%	29.0	95.1	10	1.1	3.6
VW-1		CMP	500†	152.4	22.5	10.2	(solid)			Braids							50	2.6	8.5
		CEC:	1000†	304.8	46.0	20.9	.037″			96% Shield							100	3.8	12.5
		CMP FT6					SCCCS			Coverage							200	5.4	17.7
							19.3Ω/M′			2.3Ω/M′							400	7.9	25.9
							63.3Ω/km			7.5Ω/km							700	10.7	35.1
																	900	12.3	40.4
																	1000	13.1	43.0
M17/60-RG142																	2000	19.3	63.3
200°C	**83242**	NEC:	100†	30.5	5.3	2.4	18 AWG	.116	2.95	(2) SCC	.195	4.95	50	70%	29.0	95.1	10	1.1	3.6
VW-1		CMP	500†	152.4	22.5	10.2	(solid)			Braids							50	2.6	8.5
		CEC:	1000†	304.8	46.0	20.9	.037″			96% Shield							100	3.8	12.5
		CMP FT6					SCCCS			Coverage							200	5.4	17.7
							19.3Ω/M′			2.3Ω/M′							400	7.9	25.9
							63.3Ω/km			7.5Ω/km							700	10.7	35.1
																	900	12.3	40.4
																	1000	13.1	43.0
M17/158-00001 (RG-142B/U). Non-SWR swept version of RG-142.																	2000	19.3	63.3
18 AWG Solid .037″ Silver-coated Copper-covered Steel Conductor • Silver-coated Copper Braid Shield (95% Coverage)																			
Plenum • TFE Teflon Insulation • Tinted Brown FEP Jacket																			
200°C	**84303**	NEC:	500†	152.4	16.5	7.5	18 AWG	.116	2.95	SCC Braid	.170	4.31	50	70%	29.0	95.1	10	1.1	3.6
VW-1		CL2P	1000†	304.8	32.0	14.5	(solid)			Shield							50	2.6	8.5
							.037″			95% Shield							100	3.8	12.5
							SCCCS			Coverage							200	5.4	17.7
							16.3Ω/M′			4.3Ω/M′							400	7.9	25.9
							53.5Ω/km			14.1Ω/km							700	10.7	35.1
																	900	12.3	40.4
																	1000	13.1	43.0
M17/111-RG303																	2000	19.3	63.3

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • SCC = Silver-coated Copper • SCCCS = Silver-coated Copper-covered Steel • TC = Tinned Copper • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

†May contain more than one piece, minimum length of any 1 piece is 25 feet.

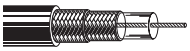
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MIL-C-17G QPL Cable

50 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
15.5 AWG Solid .056″ Silver-plated Copper Conductor • Double Silver-plated Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
85°C	**9861**	—	1000	304.8	91.0	41.4	15.5 AWG (solid) .056″ SPC 3.3Ω/M′ 10.8Ω/km	.185	4.70	(2) SPC Braids 95% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.332	8.43	50	66%	30.8	101.0	1	.3	.9
																	10	.8	2.7
																	50	1.9	6.2
																	100	2.7	8.9
																	200	4.1	13.5
																	400	5.9	19.4
																	700	8.0	26.2
																	900	9.1	29.9
M17/162-00001 (RG-212/U). Non-SWR swept version of RG-212.																	1000	9.8	32.2
13 AWG Stranded (7x21) .089″ Bare Copper Conductor • Bare Copper Braid Shield (96% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
UL AWM Style 1354 (30V 60°C)	**8267**	NEC: CMX CEC: CMX	500 1000	152.4 304.8	59.5 117.0	27.0 53.1	13 AWG (7x21) .089″ BC 1.7Ω/M′ 5.6Ω/km	.285	7.24	BC Braid 96% Shield Coverage 1.2Ω/M′ 3.9Ω/km	.405	10.29	50	66%	30.8	101.0	1	.2	.6
																	10	.6	1.8
																	50	1.3	4.3
																	100	1.9	6.2
																	200	2.7	8.9
																	400	4.1	13.5
																	700	6.5	21.3
																	900	7.6	24.9
																	1000	8.0	26.2
M17/163-00001 (RG-213/U). Non-SWR swept version of RG-213.																	4000	21.5	70.5
13 AWG Stranded (7x21) .089″ Silver-plated Copper Conductor • Double Silver-plated Copper Braid Shield (97% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
UL AWM Style 1354 (30V 60°C)	**8268**	NEC: CMX CEC: CMX	500 1000	152.4 304.8	70.5 140.0	32.0 63.5	13 AWG (7x21) .089″ SPC 1.7Ω/M′ 5.6Ω/km	.285	7.24	(2) SPC Braids 97% Shield Coverage .7Ω/M′ 2.3Ω/km	.425	10.80	50	66%	30.8	101.0	1	.2	.6
																	10	.6	1.8
																	50	1.3	4.3
																	100	1.9	6.2
																	200	2.7	8.9
																	400	4.1	13.5
																	700	6.5	21.3
																	900	7.6	24.9
																	1000	8.0	26.2
M17/164-00001 (RG-214/U). Non-SWR swept version of RG-214.																	4000	20.0	65.6

BC = Bare Copper • DCR = DC Resistance • SPC = Silver-plated Copper

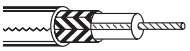
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MIL-C-17G QPL Cable

75 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
30 AWG Stranded (7x38) .012″ Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (94% Coverage)																			
TFE Teflon® Insulation • Tinted Brown FEP Jacket																			
200°C VW-1	**83264**	—	100† 500† 1000†	30.5 152.4 304.8	1.2 5.5 11.0	.5 2.5 5.0	30 AWG (7x38) .012″ SPCCS 244.0Ω/M′ 801.0Ω/km	.062	1.58	SPC Braid 94% Shield Coverage 8.5Ω/M′ 27.4Ω/km	.100	2.54	75	69.5%	19.5	64.0	1 10 50 100 200 400 700 900 1000	3.0 5.3 8.5 10.0 12.5 16.0 19.7 22.3 24.0	9.8 17.4 27.9 32.8 41.0 52.5 64.6 73.2 78.7
																			
M17/94-RG179																			
23 AWG Solid .023″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
60°C VW-1	**9204**	NEC: CMH CEC: CMH FT1	500 U-1000 1000	152.4 U-304.8 304.8	18.0 38.0 39.0	8.2 17.3 17.7	23 AWG (solid) .023″ BCCS 47.0Ω/M′ 154.2Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.241	6.12	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	.6 1.1 2.4 3.4 4.9 7.0 9.7 11.1 12.0	2.0 3.6 7.9 11.2 16.1 23.0 31.8 36.4 39.4
																			
M17/29-RG59																			
18 AWG Stranded (7x26) .048″ Tinned Copper Conductor • Bare Copper Braid Shield (97% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
60°C VW-1	**9212**	NEC: CMH CEC: CMH FT1	1000	304.8	105.0	47.7	18 AWG (7x26) .048″ TC 6.1Ω/M′ 20.0Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.2Ω/M′ 3.9Ω/km	.405	10.29	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	.2 .7 1.3 2.0 2.9 4.2 5.8 6.9 7.2	.7 2.3 4.3 6.6 9.5 13.8 19.0 22.6 23.6
																			
M17/6-RG11																			
18 AWG Stranded (7x26) .048″ Tinned Copper Conductor • Double Bare Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
60°C VW-1	**9850**	NEC: CMH CEC: CMH FT1	1000	304.8	131.0	59.5	18 AWG (7x26) .048″ TC 6.1Ω/M′ 20.0Ω/km	.285	7.24	(2) BC Braids 95% Shield Coverage .8Ω/M′ 2.6Ω/km	.425	10.80	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	.2 .7 1.3 2.0 2.9 4.2 5.8 6.8 7.1	.6 2.2 4.3 6.6 9.5 13.8 19.0 22.3 23.3
																			
M17/77-RG216																			

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • SPCCS = Silver-plated Copper-covered Steel • TC = Tinned Copper • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

†May contain more than one piece, minimum length of any 1 piece is 25 feet.

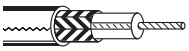
Teflon is a DuPont trademark.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

MIL-C-17G QPL Cable

93 Ohm, 95 Ohm and 125 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
93 Ohm • 22 AWG Solid .025″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)																			
Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
UL AWM Style 1354 (30V 60°C)	**9862**	NEC: CMX CEC: CMX	1000	304.8	37.0	16.8	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.2Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.242	6.15	93	84%	13.5	44.3	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	1.0 3.0 6.2 8.9 12.5 17.4 24.0 26.9 28.5
 M17/30-RG62																			
93 Ohm • 22 AWG Solid .025″ Bare Copper-covered Steel Conductor • BC Outer Braid/TC Inner Braid Shield (95% Coverage)																			
Semi-solid Polyethylene Insulation • Black Polyethylene Jacket																			
85°C	**9169**	—	1000	304.8	46.0	20.9	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.2Ω/km	.146	3.71	(2) Braids Inner: BC Outer: TC 95% Shield Coverage 1.5Ω/M′ 4.9Ω/km	.245	6.22	93	84%	13.5	44.3	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	1.0 3.0 6.2 8.9 12.5 17.4 24.0 26.9 28.5
 M17/90-RG71																			
95 Ohm • 30 AWG Stranded (7x38) .012″ Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (91% Coverage)																			
TFE Teflon® Insulation • Tinted Brown FEP Jacket																			
200°C VW-1	**83266**	—	1000†	304.8	20.0	9.1	30 AWG (7x38) .012″ SPCCS 244.0Ω/M′ 801.0Ω/km	.102	2.60	SPC Braid 91% Shield Coverage 6.5Ω/M′ 21.3Ω/km	.141	3.58	95	69.5%	15.0	49.2	1 10 50 100 200 400 700 900 1000	2.4 3.3 4.6 5.7 7.6 10.7 14.9 15.9 17.0	7.9 10.8 15.1 18.7 24.9 35.1 48.9 52.2 55.8
 M17/95-RG180																			
125 Ohm • 22 AWG Solid .025″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (97% Coverage)																			
Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
60°C	**9857**	NEC: CMH CEC: CMH FT1	1000	304.8	94.0	42.6	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.2Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.2Ω/M′ 3.9Ω/km	.405	10.29	125	84%	9.7	31.8	1 10 50 100 200 400 700 900 1000	.2 .5 1.1 1.5 2.3 3.4 4.6 5.5 5.8	1.0 1.6 3.6 4.9 7.5 11.2 15.1 18.0 19.0
 M17/31-RG63																			

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • SPC = Silver-plated Copper • SPCCS = Silver-plated Copper-covered Steel • TC = Tinned Copper • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

†May contain more than 1 piece, minimum length of any one piece is 25 feet.

Teflon is a DuPont trademark.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

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MIL-C-17G QPL Cable

Twinax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Twinax • 24 AWG Stranded (19x36) .024″ Silver-coated High-Strength Copper Alloy Conductor • SCHSCA Braid Shield (93% Coverage)																			
TFE Teflon® Insulation • Blue PFA Jacket (Color Code: White, Blue)																			
200°C	**81553**	—	500†	152.4	9.0	4.1	24 AWG (19x36) .024″ SCHSCA 24.0Ω/M′ 78.7Ω/km	.084	2.13	SCHSCA 93% Shield Coverage 7.3Ω/M′ 24.0Ω/km	.129	3.28	77	70%	24.0	78.7	1	1.2	3.9
			1000†	304.8	16.0	7.3											10	4.0	13.1
																	50	9.2	30.2
																	100	13.0	42.7
																	200	18.4	60.4
																	400	26.1	85.6
																	700	34.6	113.5
																	900	39.3	128.9
M17/176-00002																	1000	41.4	135.8
Twinax • 20 AWG Stranded (7x28) .038″ Tinned Copper Conductor • Tinned Copper Braid Shield (85% Coverage)																			
Polyethylene Insulation • Black Non-contaminating PVC Jacket (One conductor has bare strand for ID)																			
85°C	**9859**	—	1000	304.8	33.0	15.0	20 AWG (7x28) .038″ TC 9.5Ω/M′ 31.2Ω/km	.158	4.01	TC Braid 85% Shield Coverage 5.3Ω/M′ 17.4Ω/km	.235	5.97	78	66%	19.7	64.6	1	.7	2.3
																	10	2.3	7.5
																	50	5.2	17.1
																	100	7.5	24.6
																	200	11.0	36.1
																	400	16.0	52.5
M17/45-RG108																			

DCR = DC Resistance • PFA = Perfluoroalkoxy • SCHSCA = Silver-coated High-strength Copper Alloy • TC = Tinned Copper • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

†Spools may contain more than one piece. Minimum length of any one piece is 50 ft. Length may vary ±10% from length shown for spools or reels and ±5% UnReel® cartons.

Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

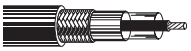
Teflon is a DuPont trademark.

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Special Audio, Communication and Instrumentation Cable

Miniature Instrumentation and Low Triboelectric Noise Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Miniature • 28 AWG Solid .013″ Tinned Copper Conductor • Bare Copper Braid Shield (90% Coverage)																			
Polypropylene Insulation • Black PVC Jacket																			
105°C VW-1	**8700**	NEC: CMH CEC: CMH FT1	250	76.2	.8	.3	28 AWG (solid) .013″ TC 66.9Ω/M′ 219.5Ω/km	.023	.58	BC Braid 90% Shield Coverage 28.7Ω/M′ 94.2Ω/km	.054	1.37	32	66%	55.2	181.1	1 10 50 100 200 400 700 900 1000	2.5 7.7 17.2 24.5 34.8 50.0 66.0 75.0 79.0	8.2 25.3 56.4 80.4 114.2 164.4 216.5 246.1 259.2
																			
Low Noise • RG-174/U Type • 26 AWG Stranded (7x34) .019″ Bare Copper-covered Steel Conductor • TC Braid Shield (90% Coverage)																			
Polyethylene Insulation • Conductive Layer • Black PVC Jacket																			
60°C	**9239**	—	100 500 1000	30.5 152.4 304.8	1.0 4.5 8.0	.5 2.0 3.6	26 AWG (7x34) .019″ BCCS 97.0Ω/M′ 318.3Ω/km	.044	1.12	TC Braid 90% Shield Coverage 14.0Ω/M′ 45.9Ω/km	.101	2.57	50	62%	38	125	—	—	—
																			
5mV peak-to-peak max. Not recommended for RF use.																			
Low Noise • RG-59/U Type • 22 AWG Solid .025″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (93% Coverage)																			
Polyethylene Insulation • Conductive Layer • Black PVC Jacket																			
75°C VW-1	**9224**	—	U-500 1000	U-152.4 304.8	19.5 39.0	8.9 17.7	22 AWG (solid) .025″ BCCS 54.0Ω/M′ 177.0Ω/km	.146	3.71	BC Braid 93% Shield Coverage 2.5Ω/M′ 8.2Ω/km	.242	6.15	75	65%	22	72	—	—	—
																			
5mV peak-to-peak max. Not recommended for RF use.																			
Low Noise • RG-58/U Type • 22 AWG Stranded (7x30) .030″ TC Conductor • Duobond® II + TC Braid Shield (95% Coverage)																			
Polyethylene Insulation • Conductive Layer • Black PVC Jacket																			
80°C VW-1	**9223**	—	100 500 1000	30.5 152.4 304.8	3.4 12.0 24.0	1.5 5.4 10.9	22 AWG (7x30) .030″ TC 10.8Ω/M′ 35.4Ω/km	.112	2.85	Duobond II* + 95% TC Braid 100% Shield Coverage 4.1Ω/M′ 13.5Ω/km	.195	4.95	50	56%	37	122	—	—	—
																			
8mV peak-to-peak max. Not recommended for RF use.																			

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

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Computer and Instrumentation Cable

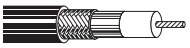
50 Ohm Ethernet® Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

Thinnet 10Base2 Ethernet • 20 AWG Stranded (19x32) .037″ Conductor • Duobond® II + Overall TC Braid Shield (93% Coverage)

Non-plenum • Foam Polyethylene Insulation • Gray PVC Jacket

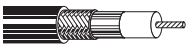
UL AWM	**9907**	NEC:	500	152.4	12.5	5.7	20 AWG	.102	2.59	Duobond II*	.185	4.70	50	80%	25.4	83.3	1	.4	1.4
Style 1354		CL2	U-1000	U-304.8	24.0	10.9	(19x32)			+ 93%							10	1.3	4.3
(30V 60°C)		CM	1000	304.8	23.0	10.4	.037″			TC Braid							50	2.9	9.5
		CEC:	1640	500.0	41.0	18.6	TC			5.8Ω/M′							100	4.2	13.8
		CM	2500	762.0	62.5	28.4	8.8Ω/M′			19.0Ω/km							200	6.1	20.0
			3280	1000.0	82.0	37.3	28.9Ω/km										400	8.9	29.2
																	700	12.1	39.7
RG-58A/U Type																	900	13.9	45.6
DEC Part No. 17-01248-00																	1000	14.8	48.6



For Plenum versions see 89907 or 82907.

Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket

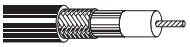
150°C	**89907**	NEC:	500	152.4	11.0	5.0	20 AWG	.095	2.41	Duobond II*	.160	4.06	50	80%	25.4	83.3	1	.4	1.4
		CMP	1000†	304.8	22.0	10.0	(19x32)			+ 93%							10	1.3	4.3
		CL2P	2500†	762.0	60.0	27.3	.037″			TC Braid							50	2.9	9.5
		CEC:					TC			5.8Ω/M′							100	4.2	13.7
		CMP FT6					8.8Ω/M′			19.0Ω/km							200	6.1	20.0
							28.9Ω/km										400	9.2	30.2
																	700	12.9	42.3
RG-58A/U Type																	900	15.0	49.2
DEC Part No. 17-01246-00. Suitable for Outdoor applications.																	1000	16.0	52.5



For Non-plenum version see 9907.

Plenum • FPFA Insulation • Natural Flamarrest® Jacket

75°C	**82907**	NEC:	500†	152.4	11.0	5.0	20 AWG	.095	2.41	Duobond II*	.160	4.06	50	80%	25.4	83.3	1	.4	1.4
		CMP	U-1000††	U-304.8	23.0	10.5	(19x32)			+ 93%							10	1.3	4.3
		CL2P	1000†	304.8	22.0	10.0	.037″			TC Braid							50	2.9	9.5
		CEC:	2500†	762.0	57.5	26.1	TC			5.8Ω/M′							100	4.2	13.7
		CMP FT6					8.8Ω/M′			19.0Ω/km							200	6.1	20.0
							28.9Ω/km										400	9.2	30.2
																	700	12.9	42.3
																	900	15.0	49.2
RG-58A/U Type																	1000	16.0	52.5

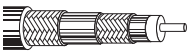


For Non-plenum version see 9907.

Thicknet 10Base5 Ethernet • 12 AWG Solid .086″ Bare Copper Conductor • Duobond IV Quad Shield (100% Coverage)

Non-plenum • Foam Polyethylene Insulation • Yellow PVC Jacket

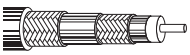
UL AWM	**9880**	NEC:	500	152.4	66.0	30.0	12 AWG	.243	6.17	Duobond IV*	.405	10.29	50	78%	26.0	85.3	1	.2	.6
Style 1478		CL2	1000	304.8	131.0	59.5	(solid)			(Duobond II							5	.4	1.2
(30V 60°C)		CM	1640	500.0	219.8	99.7	.086″			+ 94% TC Braid							10	.5	1.7
		CEC:					BC			+ Duofoil®							50	1.2	3.9
		CM					1.4Ω/M′			+ 90% TC							100	1.7	5.6
							4.7Ω/km			Braid)							200	2.6	8.4
										1.5Ω/M′							400	3.9	12.8
										5.0Ω/km							700	5.5	18.1
DEC Part No. 17-00451-00																	900	6.5	21.3
Ring-band stripes marked every 2.5 meters to aid users in tap placement.																	1000	6.9	22.6



For Plenum version see 89880.

Plenum • Foam FEP Insulation • Orange Fluorocopolymer Jacket

150°C	**89880**	NEC:	1000	304.8	134.0	60.9	12 AWG	.245	6.22	Duobond IV*	.375	9.53	50	78%	26.0	85.3	1	.2	.6
		CL2P	1640†	500.0	224.7	102.1	(solid)			(Duobond II							5	.4	1.2
		CMP					.086″			+ 90% TC Braid							10	.5	1.7
		CEC:					BC			+ Duofoil							50	1.2	3.8
		CMP FT6					1.4Ω/M′			+ 90% TC							100	1.7	5.4
							4.7Ω/km			Braid)							200	2.5	8.0
										1.5Ω/M′							400	3.8	12.5
DEC Part No. 17-00324-00										5.0Ω/km							700	5.6	18.4
Ring-band stripes marked every 2.5 meters to aid users in tap placement.																	900	6.8	22.3
Suitable for Outdoor and Direct Burial applications.																	1000	7.2	23.6



BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • FPFA = Foam Perfluoroalkoxy • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.
For cable manufactured to latest government revision or other MIL-SPEC requirements, please contact your nearest Belden Regional Sales Office.

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).
Duobond IV = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage) + aluminum braid (46% coverage).
†Final put-up length may vary from length shown ±10% for spools and reels, ±5% for UnReel® cartons.
††Length may vary -0/+10%.

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Computer and Instrumentation Cable

75 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
75 Ohm • 30 AWG Stranded (7x38) .012″ Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (95% Coverage)																			
TFE Teflon® Insulation • White TFE Tape Jacket																			
200°C VW-1	**83267**	—	100† 1000†	30.5 304.8	1.9 11.0	.9 5.0	30 AWG (7x38) .012″ SPCCS 244.0Ω/M′ 801.0Ω/km	.063	1.60	SPC Braid 95% Shield Coverage 8.6Ω/M′ 28.2Ω/km	.103	2.62	75	69.5%	19.5	64.0	1 10 50 100 200 400 700 900 1000	3.0 5.3 8.5 10.0 12.5 16.0 19.7 22.3 24.0	9.8 17.4 27.9 32.8 41.0 52.5 64.6 73.2 78.7
RG-187A/U Type • MIL-C-17D																			
75 Ohm • Dual RG-59/U Type • 23 AWG Solid .023″ Bare Copper-covered Steel Conductors • Bare Copper Braid Shield (95% Coverage)																			
Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 20063 (300V 80°C)	**9555**	NEC: CM CEC: CM	500 1000 2000	152.4 304.8 609.6	38.5 78.0 152.0	17.5 35.4 69.0	23 AWG (solid) .023″ BCCS 50.0Ω/M′ 164.0Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.238 x .478	6.05 x 12.14	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	.6 1.1 2.4 3.4 4.9 7.0 9.7 11.1 12.0	2.0 3.6 7.9 11.2 16.1 23.0 31.8 36.4 39.4
For Plenum version of see 89555.																			
75 Ohm • Dual RG-59/U Type • 23 AWG Solid .023″ Bare Copper-covered Steel Conductors • Bare Copper Braid Shield (97% Coverage)																			
Plenum • FEP Insulation • Clear FEP Jacket																			
200°C	**89555**	NEC: CMP CEC: CMP FT6	500 1000	152.4 304.8	46.5 90.0	21.1 40.9	23 AWG (solid) .023″ BCCS 50.0Ω/M′ 164.0Ω/km	.134	3.40	BC Braid 97% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.212 x .424	5.39 x 10.77	75	70%	19.5	64.0	1 10 50 100 200 400 700 900 1000	.5 1.1 2.5 3.5 5.1 7.5 10.4 12.0 12.7	1.6 3.6 8.2 11.5 16.7 24.6 34.1 39.4 41.7
Suitable for Outdoor and Direct Burial applications.																			
75 Ohm • RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel Conductor • Duobond® IV Quad Shield (100% Coverage)																			
Non-Plenum • Gas-injected Foam Polyethylene Insulation • Gray PVC Jacket																			
	3131A	NEC: CL2R, CMR CEC: CMR FT4	1000 2500††	304.8 762.2	39.0 97.5	17.7 44.3	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond IV* Quad Shield 3.6Ω/M′ 11.8Ω/km	.300	7.62	75	82%	16.2	53.2	1 2 5 10 20 50 100 200 300 400	.35 .38 .45 .59 .86 1.37 1.97 2.82 3.48 4.04	1.15 1.25 1.48 1.94 2.82 4.50 6.46 9.25 11.42 13.26
Sweep tested 5 MHz to 400 MHz. CPE jacket optional.																			
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																			
150°C	**3132A**	NEC: CMP CEC: CMP FT6	1000	304.8	36.0	16.4	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 19.9Ω/km	.170	4.32	Duobond IV* Quad Shield 7.2Ω/M′ 23.6Ω/km	.274	6.96	75	82%	16.3	53.5	1 2 5 10 20 50 100 200 300 400	.36 .38 .50 .65 .95 1.50 2.12 2.99 3.66 4.23	1.18 1.25 1.64 2.13 3.12 4.92 6.96 9.81 12.01 13.88
For Non-plenum version see 3131A. Sweep tested 5 MHz to 400 MHz.																			
Suitable for Outdoor and Direct Burial applications.																			
75 Ohm • RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel Conductor • Duobond IV Quad Shield (100% Coverage)																			
Non-Plenum • Gas-injected Foam Polyethylene Insulation • Gray PVC Jacket																			
	3094A	NEC: CL2R, CMR CEC: CMG FT4	500 1000 2000	152.4 304.8 609.6	34.5 69.0 136.0	15.7 31.3 61.7	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV* Quad Shield 1.5Ω/M′ 4.9Ω/km	.407	10.34	75	82%	16.2	53.2	1 2 5 10 20 50 100 200 300 400	.16 .18 .26 .38 .55 .83 1.17 1.60 1.99 2.30	.53 .59 .85 1.25 1.81 2.72 3.84 5.25 6.53 7.55
Sweep tested 5 MHz to 400 MHz. CPE jacket optional.																			
Tap marks every 2.6 meters to aid users in installation.																			

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • SPC = Silver-coated Copper • SPCCS = Silver-coated Copper-covered Steel • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

* Duobond IV = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage) + aluminum braid (46% coverage).
† May contain more than one piece, minimum length of any one piece is 25 ft.
†† Spools may contain more than one piece. Final put-up may vary ±10% for spools and reels and ±5% for UnReel® cartons. 25 feet minimum length.

Teflon is a DuPont trademark.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Computer and Instrumentation Cable

75 Ohm and 93 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
75 Ohm • RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel Conductor • Duobond IV Quad Shield (100% Coverage)																			
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																			
150°C	**3095A**	NEC: CMP, PLTC CEC: CMP FT6	1000	304.8	76.0	34.5	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV* Quad Shield 3.9Ω/M′ 12.8Ω/km	.387	9.83	75	82%	16.5	54.1	1 10 50 100 200 400	.20 .39 1.20 1.70 2.50 3.50	.70 1.30 3.90 5.60 8.20 11.50
																			
Suitable for Outdoor and Direct Burial applications. Tap marks every 2.6 meters to aid users in installation.											Sweep tested 5 MHz to 400 MHz.								
93 Ohm • RG-62B/U Type • 24 AWG Stranded (7x32) .024″ Bare Copper-covered Steel Conductor • BC Braid Shield (95% Coverage)																			
Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
UL AWM Style 1354 (30V 60°C) VW-1	**8255**	NEC: CMX CEC: CMX	500 1000	152.4 304.8	16.5 36.0	7.5 16.3	24 AWG (7x32) .024″ BCCS 59.0Ω/M′ 193.6Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.242	6.15	93	84%	13.5	44.3	1 10 50 100 200 400 700 900 1000	.3 .9 2.0 2.9 4.2 6.1 8.6 10.1 11.1	1.0 3.0 6.6 9.5 13.8 20.0 28.2 33.1 36.4
																			
MIL-C-17D																			
93 Ohm • RG-62/U Type • JAN-C-17A • 22 AWG Solid .025″ Bare Copper-covered Steel Conductor • BC Braid Shield (95% Coverage)																			
Semi-solid Polyethylene Insulation • Black PVC Jacket																			
75°C	**8254**	—	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	18.0 16.5 35.0 36.0	8.2 7.5 15.9 16.3	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.1Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.238	6.05	93	84%	13.5	44.3	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	.8 2.8 6.2 8.9 12.5 17.4 23.9 26.9 28.5
																			
93 Ohm • RG-62A/U Type • 22 AWG Solid .025″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)																			
Semi-solid Polyethylene Insulation • Black High-density Polyethylene Jacket																			
Flooded Burial 80°C	**9228**	—	500 1000 2000 5000	152.4 304.8 609.6 1524.0	15.0 33.0 68.0 170.0	6.8 15.0 30.9 77.3	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.1Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.242	6.15	93	84%	13.5	44.3	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	.8 2.8 6.2 8.9 12.5 17.4 23.9 26.9 28.5
																			
Suitable for Outdoor and Direct Burial applications.																			
Semi-solid Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1478 (30V 60°C)	**9268**	NEC: CM CL2 CEC: CM	500 U-1000 1000 2000	152.4 U-304.8 304.8 609.6	20.0 42.0 44.0 88.0	9.1 19.1 20.0 40.0	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.1Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.260	6.60	93	84%	13.5	44.3	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	.8 2.8 6.2 8.9 12.5 17.4 23.9 26.9 28.5
																			
IBM P/N 5252750 • Includes Mylar® tape as a moisture barrier for improved outdoor reliability.																			
UL AWM Style 1478 (30V 60°C)	**9269**	NEC: CM CL2 CEC: CM	U-500 500 U-1000▲ 1000 1640 2000 3280 5000	U-152.4 152.4 U-304.8 304.8 500.0 609.6 1000.0 1524.0	18.5 17.0 36.0 38.0 60.7 76.0 121.4 185.0	8.4 7.7 16.7 17.2 27.5 34.5 55.0 84.0	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.1Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.239	6.07	93	84%	13.5	44.3	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	.8 2.8 6.2 8.9 12.5 17.4 23.9 26.9 28.5
											For Plenum version of 9269, see 89269, 87269 and 82269.								
IBM P/N 323921 P-MSHA SC-1823** ▲U-1000 put-up also available in Orange, Beige or Chrome.																			

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

Mylar is a DuPont trademark.

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.
For cables manufactured to latest government revision or other MIL-SPEC requirements, please contact your nearest Belden regional Sales Office.

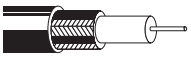
* Duobond IV = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage) + aluminum braid (46% coverage).
** Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Computer and Instrumentation Cable

93 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-62/U Type • 22 AWG Solid .025″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (94% Coverage)																			
Plenum • Semi-solid FEP Teflon® Insulation • Black or White Tint FEP Jacket																			
200°C 	**89269**	NEC: 100▲ CMP 500 CEC: 1000 CMP FT6	100▲ 500 1000	30.5 152.4 304.8	5.2 16.5 33.0	2.4 7.5 15.0	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.2Ω/km	.142	3.61	BC Braid 94% Shield Coverage 3.4Ω/M′ 11.2Ω/km	.200	5.08	93	85%	12.8	42.0	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	1.0 3.0 6.2 8.9 12.5 17.4 23.9 26.9 28.5
▲100 ft. put-up available in Black only. Suitable for Outdoor and Direct Burial applications.																			
Plenum • Semi-solid FEP Teflon Insulation • Gray Fluorocopolymer Jacket																			
150°C 	**87269**	NEC: CMP CEC: CMP FT6	1000	304.8	34.0	15.4	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.2Ω/km	.142	3.61	BC Braid 94% Shield Coverage 3.4Ω/M′ 11.2Ω/km	.200	5.08	93	85%	12.8	42.0	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	1.0 3.0 6.2 8.9 12.5 17.4 23.9 26.9 28.5
Suitable for Outdoor and Direct Burial applications.																			
Plenum • Semi-solid FEP Teflon Insulation • Natural Flamarrest® Low-smoke Jacket																			
75°C 	**82269**	NEC: CMP CEC: CMP FT6	1000	304.8	30.0	13.6	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.2Ω/km	.142	3.61	BC Braid 94% Shield Coverage 3.4Ω/M′ 11.2Ω/km	.200	5.08	93	85%	12.8	42.0	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	1.0 3.0 6.2 8.9 12.5 17.4 23.9 26.9 28.5
Plenum • Foam FEP Teflon Insulation • White Tint FEP Jacket																			
200°C 	**86262**	NEC: 500 CMP 1000 CEC: CMP FT6	500 1000	152.4 304.8	16.0 32.0	7.3 14.5	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.2Ω/km	.146	3.71	BC Braid 94% Shield Coverage 3.4Ω/M′ 11.2Ω/km	.204	5.18	93	85%	12.5	41.0	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	1.8 3.0 6.2 8.9 12.5 17.4 23.9 26.9 28.5
Suitable for Outdoor and Direct Burial applications.																			
Plenum • Foam FEP Teflon Insulation • Natural Flamarrest Jacket																			
75°C 	**82262**	NEC: U-1000 CMP 1000 CEC: CMP FT6	U-1000 1000	U-304.8 304.8	31.0 30.0	14.1 13.6	22 AWG (solid) .025″ BCCS 41.2Ω/M′ 135.2Ω/km	.146	3.71	BC Braid 94% Shield Coverage 3.4Ω/M′ 11.2Ω/km	.204	5.18	93	85%	12.5	41.0	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.7 3.8 5.3 7.3 8.2 8.7	1.8 3.0 6.2 8.9 12.5 17.4 23.9 26.9 28.5

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

Teflon is a DuPont trademark.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

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Computer and Instrumentation Cable

78 Ohm, 95 Ohm and 100 Ohm Twinax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
78 Ohm • 20 AWG Stranded (7x28) .038″ Tinned Copper Conductors • Tinned Copper Braid Shield (93% Coverage)																			
Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue)																			
UL AWM Style 2092 (300V 60°C)	**9272**	NEC:	100	30.5	4.5	2.0	20 AWG (7x28) .038″ TC 9.5Ω/M′ 31.2Ω/km	.156	3.96	TC Braid 93% Shield Coverage 3.4Ω/M′ 11.2Ω/km	.244	6.20	78	66%	19.7	64.6	1	.6	2.0
		CM	500	152.4	18.5	8.4											10	2.1	6.9
		CEC:	U-500	U-152.4	20.0	9.1											50	5.0	16.4
		CM	U-1000	U-304.8	39.0	17.7											100	7.5	24.6
			1000	304.8	41.0	18.6											200	11.0	36.1
																	400	16.0	52.5
																			
Plenum • FEP Teflon® Insulation • Blue FEP Teflon Jacket (Color Code: Clear, Blue)																			
200°C	**89272**	NEC:	500	152.4	17.0	7.7	20 AWG (7x28) .038″ TC 9.5Ω/M′ 31.2Ω/km	.148	3.76	TC Braid 93% Shield Coverage 3.9Ω/M′ 12.8v/km	.198	5.03	78	69.5%	18.4	60.4	1	.6	2.0
		CMP	1000	304.8	38.0	17.3											10	2.1	6.9
		CEC:															50	5.0	16.4
		CMP FT6															100	7.5	24.6
																	200	11.0	36.1
																	400	16.0	52.5
																			

Suitable for Aerial applications when supported by a messenger.

78 Ohm • 20 AWG Stranded (7x28) .038″ Tinned Copper Conductors • Beldfoil® (100% Coverage) + TC Braid Shield (55% Coverage)

Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket (Color Code: Clear, Blue)

UL AWM Style 2464 (300V 80°C)	**9463**	NEC:	100	30.5	4.4	2.0	20 AWG (7x28) .038″ TC 9.5Ω/M′ 31.0Ω/km	.154	3.91	Beldfoil + 55% TC Braid 4.1Ω/M′ 13.4Ω/km	.238	6.05	78	66%	19.7	64.6	1	.6	2.0
		CM CL2	U-500	U-152.4	19.5	8.9											10	2.1	6.9
		CEC:	500	152.4	18.0	8.2											50	3.6	11.8
		CM	U-1000	U-304.8	38.0	17.2											100	7.5	24.6
			1000▲	304.8	39.0	17.7											200	11.0	36.1
			6000▲†	1828.7	234.0	106.1											400	16.0	52.5
			10000▲†	3048.0	380.0	172.4													
																			

PMSHA P-7K-SC-182141*
Allen Bradley P/N 1770-CD
▲1000 ft. and 6000 ft. put-ups also available in Brown, Orange and Purple. 10,000 ft. available in Brown or Orange only.

RG-22B/U • 95 Ohm • 18 AWG Stranded (7x26) .046″ Bare Copper Conductors** • Double Tinned Copper Braid Shield (95% Coverage)

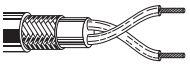
Polyethylene Insulation • PE Inner Jacket • Black Non-contaminating PVC Outer Jacket (Color Code: Clear, Clear)

80°C VW-1	**9250**	—	500	152.4	61.5	27.9	18 AWG (7x26) .046″ BC 6.6Ω/M′ 21.5Ω/km	.285	7.24	(2) TC Braids 95% Shield Coverage .9Ω/M′ 3.0Ω/km	.416	10.67	95	66%	16.0	52.5	1	.3	1.0
			1000	304.8	121.0	54.9											10	.9	3.0
																	20	1.3	4.3
																	50	2.1	6.9
																	100	3.0	9.8
																	400	6.3	20.7
																			

RG-22B/U Type
**1 conductor has tinned center strand. Non-contaminating PVC jacket.

100 Ohm • 20 AWG Stranded (7x28) .037″ One Tinned/One Bare Copper Conductors • Duofoil® + Double TC Braid Shield (95% Coverage)

Polyethylene Insulation • Black High-density Polyethylene Jacket

Direct Burial 80°C	**9815**	—	500	152.4	34.5	15.7	20 AWG (7x28) .037″ (1) TC, (1) BC 9.5Ω/M′ 31.0Ω/km	.236	5.99	TC Braid 95% Shield Coverage 2.0Ω/M′ 6.6Ω/km	.330	8.38	100	66%	14.5	47.6	1	.4	1.3
			1000	304.8	69.0	31.4											10	1.1	3.6
			2000	609.6	134.0	60.9											50	2.5	8.2
																	100	4.1	13.5
																	200	6.4	21.0
																	400	10.2	33.5
																			

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • PE = Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.
†Final put-up may vary from length shown. ±10% for spools or reels, ±5% for UnReel® cartons.

Teflon is a DuPont trademark.

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Computer and Instrumentation Cable

100 Ohm, 124 Ohm and 150 Ohm Twinax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

100 Ohm • 20 AWG Stranded (7x28) .037″ One TC/One BC Conductor • Duofoil® (100% Coverage) + TC Braid Shield (86% Coverage)

Polyethylene Insulation • Polyethylene Inner Jacket • Black PVC Outer Jacket

75°C	**9207**	NEC:	100	30.5	7.1	3.2	20 AWG	.236	5.99	Duofoil	.330	8.38	100	66%	14.5	47.6	1	.3	1.0
		CM CL2	U-500	U-152.4	33.0	15.0	(7x28)			+86%							10	1.2	3.9
		CEC:	500	152.4	34.5	15.7	.037″			TC Braid							50	2.8	9.2
		CMG FT4	1000	304.8	68.0	30.9	(1) TC,			1.7Ω/M′							100	4.1	13.5
			1640	500.0	111.5	50.7	(1) BC			5.7Ω/km							200	6.4	21.0
			2000	609.6	136.0	61.8	9.5Ω/M′										400	10.2	33.5
			3280	1000.0	219.8	99.9	31.0Ω/km												
IBM P/N 7362211			5000	1524.0	350.0	159.1													

For Plenum versions see 89207.

CPE jacket optional.

100 Ohm • 20 AWG Stranded (7x28) .037″ One TC/One BC Conductor • Duofoil (100% Coverage) + TC Braid Shield (85% Coverage)

Plenum • FEP Insulation • Black FEP Jacket

200°C	**89207**	NEC:	100	30.5	6.7	3.0	20 AWG	.201	5.11	Duofoil	.259	6.58	100	69.5%	14.0	46.0	1	.3	1.0
		CMP	500	152.4	26.0	11.8	(7x28)			+85%							10	1.2	3.9
		CEC:	1000	304.8	55.0	25.0	.037″			TC Braid							50	2.8	9.2
		CMP FT6					(1) TC, (1) BC			2.5Ω/M′							100	4.1	13.5
							9.5Ω/M′			8.2Ω/km							200	6.4	21.0
							31.2Ω/km										300	8.4	27.6
																	400	10.2	33.5

124 Ohm • 25 AWG Stranded (7x33) .021″ Tinned Copper Conductors • Beldfoil® Shield (100% Coverage) • Stranded TC Drain Wire

Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue)

UL AWM	**9271**	NEC:	100	30.5	3.2	1.5	25 AWG	.170	4.32	Beldfoil	.240	6.10	124	66%	12.2	40.0	1	.6	2.0
Style 2092		CM	500	152.4	12.5	5.7	(7x33)			12.0Ω/M′							10	1.7	5.6
(300V 60°C)		CEC:	U-1000	U-304.8	27.0	12.3	.021″			39.4Ω/km							50	3.6	11.8
		CM	1000	304.8	28.0	12.7	TC										100	5.0	16.4
							31.8Ω/M′										200	6.9	22.6
							104.3Ω/km										400	9.6	31.5

CPE jacket optional.

Shorting Fold

124 Ohm • 16 AWG Solid .051″ Bare Copper Conductors • Duofoil (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)

Foam Polyethylene Insulation • Black PVC Jacket (Color Code: Clear, Blue)

UL AWM	**9860**	NEC:	500	152.4	52.0	23.6	16 AWG	.322	8.18	Duofoil	.440	11.18	124	78%	10.9	35.8	1	.2	.6
Style 2448		CMX	1000	304.8	103.0	46.8	(solid)			+ 90%							10	.7	2.3
(30V 60°C)		CEC:	2000	609.6	202.0	91.8	.051″			TC Braid							50	1.8	5.9
VW-1		CMX					BC			1.3Ω/M′							100	2.9	9.5
							4.2Ω/M′			4.3Ω/km							200	4.1	13.5
							13.8Ω/km										400	6.2	20.3

CPE jacket optional.

150 Ohm • 22 AWG Stranded (19x34) .031″ Tinned Copper Conductors • Duofoil Shield (100% Coverage) • Stranded TC Drain Wire

Datalene® Insulation • Black PVC Jacket (Color Code: Black, Yellow)

UL AWM	**9182**	NEC:	U-500	U-152.4	21.5	9.8	22 AWG	.275	6.98	Duofoil	.345	8.76	150	78%	8.8	28.9	1	.4	1.3
Style 2668		CMX	500	152.4	23.0	10.4	(19x34)			6.3Ω/M′							10	1.2	3.9
(30V 60°C)		CL2X	1000	304.8	44.0	20.0	.031″			20.7Ω/km							50	2.7	8.7
VW-1		CEC:					TC										100	4.3	14.1
		CMX					14.0Ω/M′										200	6.2	20.3
							45.9Ω/km										400	8.8	28.9

For Plenum version of 9182, see 89182.

Dual version: YR41609.

CPE jacket optional.

Shorting Fold

Plenum • Foam FEP Teflon Insulation • Black FEP Teflon Jacket (Color Code: Black, Yellow)

	89182	NEC:	100	30.5	6.4	2.9	22 AWG	.278	7.06	Duofoil	.307	7.80	150	78%	8.8	28.9	1	.4	1.3
		CMP	500	152.4	28.0	12.7	(19x34)			6.3Ω/M′							10	1.2	3.9
		CL2P	1000	304.8	53.0	24.1	.031″			20.7Ω/km							50	2.7	8.7
		CEC:					TC										100	4.3	14.1
		CMP FT6					14.0Ω/M′										200	6.2	20.3
							45.9Ω/km										400	8.8	28.9

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

Teflon is a DuPont trademark.

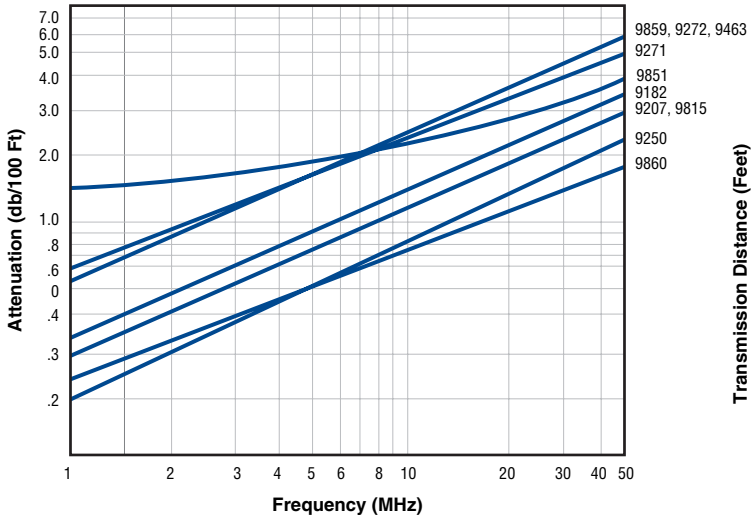
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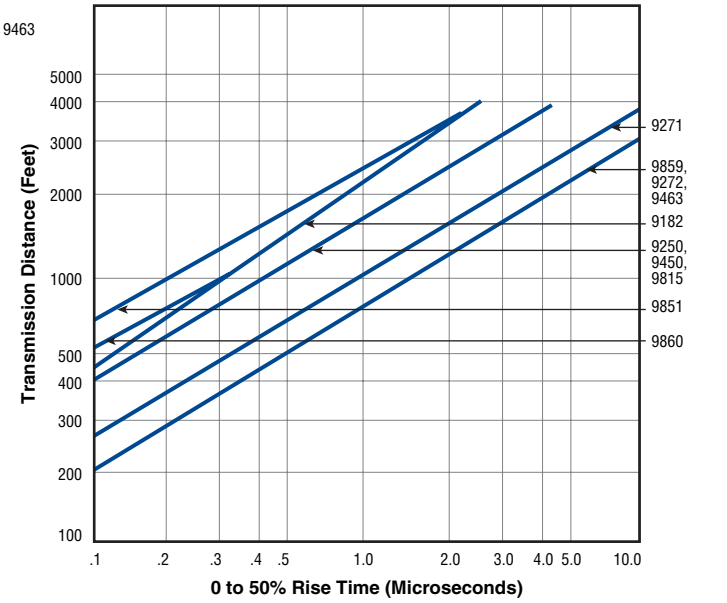
Computer and Instrumentation Cable

Electrical Characteristics — Twinax

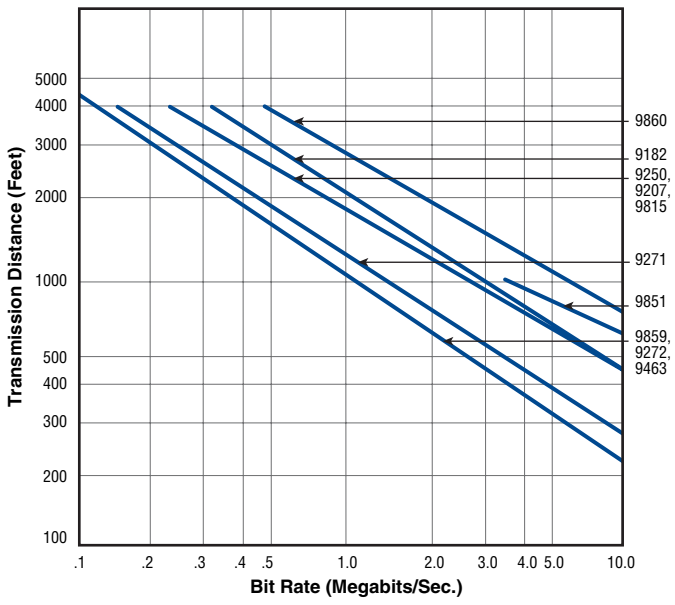
Attenuation



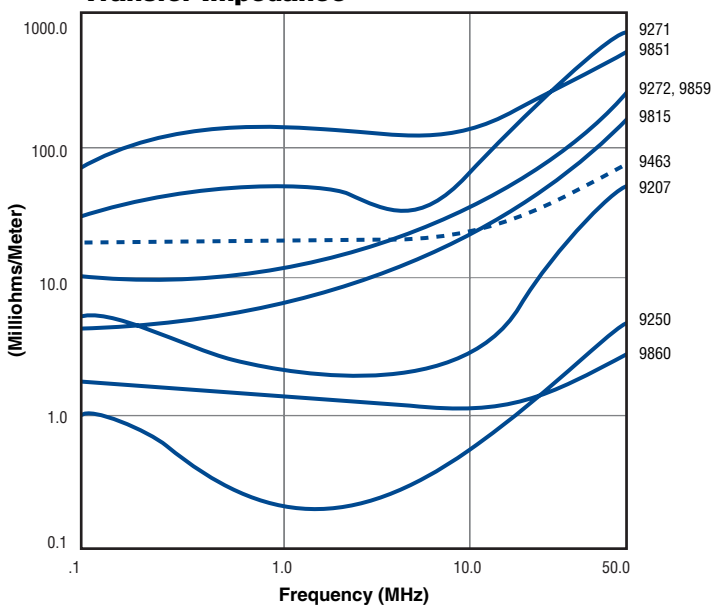
Rise Time



Bit Rate



Transfer Impedance



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Computer and Instrumentation Cable

50 Ohm Triax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-58A/U Type • 20 AWG Stranded (7x28) .037″ Tinned Copper Conductor • Double Tinned Copper Braid Shield (96% Coverage)																			
Polyethylene Insulation • Yellow PVC Jacket (Polyethylene Insulation between Braids)																			
75°C	**9222**	—	100	30.5	4.6	2.1	20 AWG (7x28) .037″ TC 9.5Ω/M′ 31.0Ω/km	.114	2.90	(2) TC Braids 96% Shield Coverage Inner: 4.7Ω/M′ 15.5Ω/km Outer: 4.3Ω/M′ 14.1Ω/km	.240	6.10	50	66%	30.8	101.0	1	.5	1.6
			U-500	U-152.4	19.5	8.8											10	1.5	4.9
			500	152.4	20.5	9.3											50	3.3	10.8
																	100	4.9	16.1
																	200	7.2	23.6
																	400	12.0	39.4
																	700	18.0	57.1
																	900	22.0	72.2
																	1000	24.0	78.7
RG-8/U Type • 11 AWG Stranded (7x19) .108″ Bare Copper Conductor • Double Bare Copper Braid Shield (96% Coverage)																			
Foam Polyethylene Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids)																			
80°C	**9888**	—	500	152.4	72.5	33.0	11 AWG (7x19) .108″ BC 1.2Ω/M′ 3.9Ω/km	.285	7.24	(2) BC 96% Shield Coverage Inner: 1.2Ω/M′ 3.9Ω/km Outer: 2.1Ω/M′ 4.9Ω/km	.480	12.19	50	78%	26.0	85.3	1	.1	.5
			1000	304.8	140.0	63.6											10	.5	1.7
																	50	1.2	3.9
																	100	1.8	5.9
																	200	2.7	8.9
																	400	4.2	13.8
																	700	5.8	19.0
																	900	6.7	22.0
																	1000	7.1	23.3

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

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Amateur Radio and CB Coaxial Cable Assemblies

RG-8/U Type • 50 Ohm

Description	Part No.	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
RG-8/U Type • 11 AWG Stranded (7x19) BC Conductor • Military-Type Braid Coverage • Fitted with PL-259 Connectors on Both Ends							
Foam Polyethylene Insulation • Black PVC Jacket							
	**9354**	50	15.24	7.1	3.2	.403	10.24
	9355	75	22.86	10.7	4.9	.403	10.24
	9356	100	30.48	14.2	6.4	.403	10.24

Coax is 8214. See page 6.69 for product details.

BC = Bare Copper

These cables are designed to be used with two-way systems, such as Citizens Band (CB), Commercial, Amateur, and Marine equipment applications. They provide a positive link between the transmitter and antenna or between the receiver and antenna.

They are capable of handling higher power requirements with lower signal losses. Packaged individually.

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Technical Information

Attenuation vs. Frequency for Belden® Broadband Coaxial Products

Frequency Point (MHz)	Series 59				Series 6				Series 11			
	Nominal dB/100 Ft.	Nominal dB/100m	Maximum dB/100 Ft.	Maximum dB/100m	Nominal dB/100 Ft.	Nominal dB/100m	Maximum dB/100 Ft.	Maximum dB/100m	Nominal dB/100 Ft.	Nominal dB/100m	Maximum dB/100 Ft.	Maximum dB/100m
5	.75	2.46	.89	2.92	.54	1.77	.67	2.20	.34	1.12	.38	1.25
55	1.84	6.04	1.95	6.40	1.45	4.76	1.60	5.25	.91	2.99	.97	3.18
211	3.36	11.02	3.59	11.78	2.64	8.66	2.87	9.42	1.68	5.51	1.81	5.94
216	3.41	11.19	3.69	12.11	2.67	8.76	2.95	9.68	1.70	5.58	1.84	6.04
240	3.57	11.71	3.87	12.70	2.80	9.19	3.09	10.14	1.78	5.84	1.94	6.36
270	3.79	12.43	4.05	13.29	2.97	9.74	3.24	10.63	1.89	6.20	2.05	6.73
300	3.99	13.09	4.27	14.01	3.13	10.27	3.43	11.25	1.99	6.53	2.15	7.05
325	4.16	13.65	4.50	14.76	3.26	10.70	3.59	11.78	2.07	6.79	2.24	7.35
350	4.33	14.21	4.64	15.22	3.39	11.12	3.72	12.20	2.15	7.05	2.32	7.61
375	4.49	14.73	4.84	15.88	3.52	11.55	3.87	12.70	2.22	7.28	2.40	7.87
400	4.66	15.29	4.88	16.01	3.65	11.97	4.00	13.12	2.30	7.55	2.47	8.10
450	4.96	16.27	5.30	17.39	3.88	12.73	4.26	13.98	2.45	8.04	2.65	8.69
500	5.22	17.13	5.50	18.04	4.09	13.42	4.48	14.70	2.59	8.50	2.85	9.35
550	5.48	17.98	5.90	19.36	4.30	14.11	4.71	15.45	2.73	8.96	2.94	9.65
600	5.75	18.86	6.18	20.28	4.51	14.80	4.94	16.21	2.85	9.35	3.08	10.10
650	6.03	19.78	6.52	21.39	4.72	15.49	5.18	16.99	2.98	9.78	3.22	10.56
700	6.28	20.60	6.83	22.41	4.92	16.14	5.45	17.88	3.10	10.17	3.37	11.06
750	6.51	21.36	6.96	22.83	5.11	16.76	5.59	18.34	3.21	10.53	3.50	11.48
800	6.71	22.01	7.30	23.95	5.27	17.29	5.75	18.86	3.32	10.89	3.65	11.97
862	6.97	22.87	7.50	24.61	5.47	17.95	5.98	19.62	3.46	11.35	3.82	12.53
870	7.00	22.97	7.54	24.74	5.49	18.01	6.00	19.68	3.48	11.42	3.84	12.60
900	7.14	23.42	7.79	25.56	5.60	18.37	6.11	20.05	3.55	11.65	3.96	12.99
950	7.39	24.25	7.90	25.92	5.79	19.00	6.35	20.83	3.66	12.01	4.10	13.45
1000	7.68	25.20	8.09	26.54	5.99	19.65	6.54	21.46	3.77	12.37	4.23	13.88
1450	—	—	—	—	7.80	25.60	8.00	26.20	5.00	16.41	5.50	18.10
1800	—	—	—	—	8.60	28.20	8.80	28.90	5.70	18.70	6.27	20.60
2250	—	—	—	—	9.80	32.20	10.00	32.80	6.50	21.33	7.15	23.50
3000	—	—	—	—	11.30	37.10	11.90	39.00	8.00	26.25	8.80	28.90

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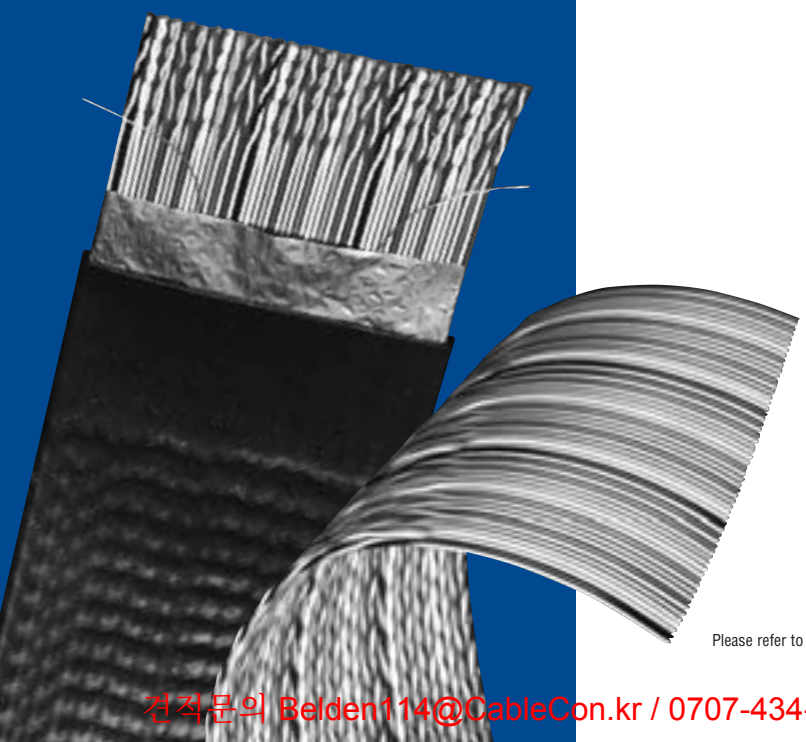
BELDEN
SENDING ALL THE RIGHT SIGNALS



7 Flat Cable

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Please refer to “Terms of Use of Master Catalog” on page 22.22

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Introduction

Belden® flat cables are designed using the same expertise and design sophistication that made Belden a leader in round cable. Whatever your application, Belden is committed to offering quality flat cable products at a competitive price. Our extensive line includes Gray Ribbon, Rainbow, Vari-Twist® and Shielded and Jacketed Flat Cable options. Many of these are available off the shelf from local distributors. If you have a new or unusual application or you cannot find a flat cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Benefits of Flat Cable

- **Mass Termination** Terminating flat cable is done with the entire group of conductors as a unit, which is more efficient than working with individual conductors at one time.
- **Reliability** The simplicity of flat cable with its parallel conductor geometry eliminates many of the common sources of wiring error and malfunction. Registration of the conductors is one-to-one with the terminating connector or board so that proper contact assignment is almost automatic.
- **Space and Weight Reduction** The use of flat cable often eliminates much of the conventional wire weight and bulk. Such things as redundant insulating materials, fillers and tapes are not required. In addition, the composite flat cable construction is so mechanically strong that it is not necessary to have large conductors for strength. The copper cross-section can thus be reduced to what's required to carry the current load or to satisfy voltage drop requirements.
- **Flexibility** Flat cable is extremely flexible when bent in the plane of its thin cross-section. This flexibility has been utilized in applications where continuous or high flexing is necessary, e.g. drawers, doors, rotating arms, etc.
- **Greater Strength** Strength is enhanced by the fact that all conductors and insulation equally share tensile loads.
- **Consistent Electrical Characteristics** Because the conductor spacing is fixed and the geometry of the cable is constant, the electrical characteristics, such as impedance, capacitance, inductance, time delay, crosstalk and attenuation, are consistent.
- **Greater Current Carrying Capacity** Flat cables have greater surface-to-volume ratio than their round cable counterparts, consequently having higher efficiency in dissipating heat. This allows a higher current level for a given temperature rise and conductor cross-section.
- **Reduced Skewing Effects** Due to the conductors having the exact physical and electrical length, along with a continuous and consistent dielectric, time delays between signals within a given flat cable are minimized.
- **High-Density Interconnections** The cabling density achievable using flat cable is superior to that using conventional cable because of the high wire-to-cable cross-sectional density. Layers of flat cable are more effectively packed for higher conductor density than round cable.
- **Ease of Handling** Flat cable folds and bends readily, conforms to the mounting area, fastens easily with clamps, adhesive, or double-faced tape, and eliminates the installation and lacing difficulties associated with round wire cabling. Visible conductors in a fixed position within the dielectric simplify coding, inspection and circuit tracing.

Flat Cable Packaging

Packaging of flat cable is offered in one or more of the following configurations, as noted in the Physical Specifications table for each product:

100: 100′ put-up in a cardboard container. May contain more than one piece.

H100: A one-piece 100′ length, in a cardboard container.

H300: 300′ length in a cardboard container may contain more than one piece.

R300: 300′ length put-up on a reel may contain more than one piece. It is designed for use by assemblers who use automated terminating equipment. An additional feature is the 9″ inner tail exposed through the flange. This enables users to terminate the cable end to a device, which is necessary for in-line testing.

Note: Material on this page obtained from and printed with the permission of the Institute for Interconnecting and Packaging Electronic Circuits (IPC).

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Gray Ribbon 9L300XX Series

.025″ Pitch, 30 AWG, PVC

Product Description

Belden's miniaturized .025″ pitch extruded gray ribbon cable provides higher signal density, greater design flexibility, and an alternative to the expensive Teflon® transmission cables. The cable is manufactured to precise tolerances which allows for mass-termination to standard .050″ contact IDC connectors while assuring consistent and reliable electrical characteristics. With the miniaturization of the interconnects, significant reduction in components can be achieved. The cable is constructed of stranded 30 AWG (7x38) tinned copper conductors. Insulation material consists of Gray PVC, with a Red polarity stripe for proper circuit alignment. Standard conductor counts are 26 and 50; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

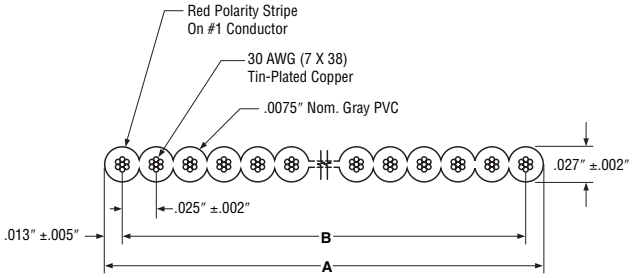
Color Code: Gray with Red polarity stripe.

Application: Internal interconnection or internal wiring of electronic equipment.

Part No.	No. of Cond.	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9L30026	26	.650 ±.010	16.51 ±.25	.625 ±.007	15.88 ±.18
9L30050†	50	1.250 ±.011	31.75 ±.28	1.225 ±.009	31.12 ±.23

†Available in H100 packaging only.

Dimensions



Physical Specifications

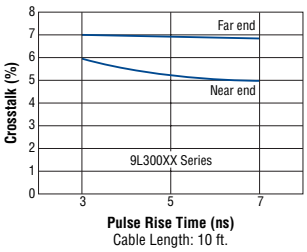
Conductor	30 AWG (7x38) Tinned Copper
Insulation	.0075″ Nom. Wall Gray PVC
Pitch	.025″ ± .002″
Temperature Rating	-40 to +105°C
Flammability Rating	UL: VW-1, CSA: FT1
UL Approval	File #E12683, Style 2678
CSA Approval	File #LL7874, CSA AWM I A 105°C 150V FT1
Packaging	H100, H300

Electrical Specifications

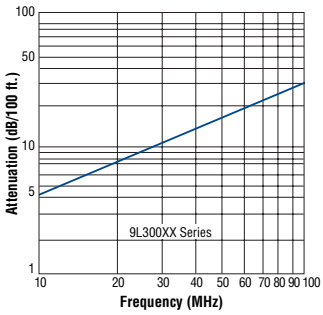
Voltage Rating	150V RMS
Current Rating	.5A
Conductor Resistance	108Ω/1000 ft.
Insulation Resistance	>1 x 10^{10}Ω • 10 ft. (3m)
Impedance*	70Ω
Capacitance* (@ 1 MHz)	24 pF/ft. (79 pF/m)
Inductance* (@ 1 MHz)	.14 µH/ft. (.46 µH/m)
Propagation Delay*	1.52 ns/ft. (4.99 ns/m)

*Test Configuration: G-S-G (ground-signal-ground).

Unbalanced Crosstalk



Attenuation



Teflon is a DuPont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Gray Ribbon 2L280XX Series

1mm Pitch, 28 AWG, PVC

Product Description

Belden's 1mm (.03937″ pitch) extruded gray ribbon cable was designed for the disk drive market where the 2mm IDC connector is widely used. The cable provides improved space reduction, easy breakouts for circuit routing, and maintains the current carrying capacity required for these applications. In addition, the electrical performance meets those requirements specified by the SCSI-3 parallel interface document. The cable is constructed of stranded 28 AWG (7x36) tinned copper conductors. Insulation material consists of Gray PVC, with a Black polarity stripe for proper circuit alignment. Standard conductor counts are 26, 34, 40, 44 and 50; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

Color Code: Gray with Black polarity stripe.

Application: Internal interconnection or internal wiring of electronic equipment.

Physical Specifications

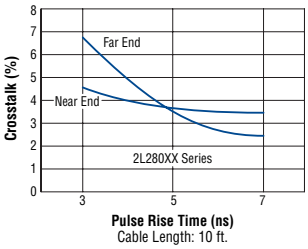
Conductor	28 AWG (7x36) Tinned Copper
Insulation	.010″ Nom. Wall Gray PVC
Pitch	1mm ± 0.51mm (.0394″ ± .002″)
Temperature Rating	-40 to +105°C
Flammability Rating	UL: VW-1; CSA: FT1
UL Approval	File #E12683, Style 2651
CSA Approval	File #LL7874, CSA AWM I A 105°C 300V FT1
Packaging	H100, R300

Electrical Specifications

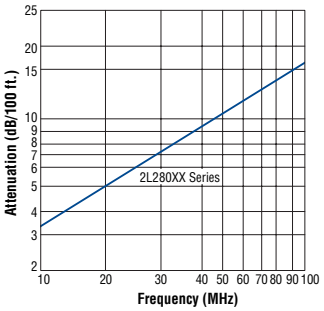
Voltage Rating	300V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10^{10}Ω • 10 ft. (3m)
Impedance*	90Ω
Capacitance* (@ 1 MHz)	16.5 pF/ft. (54 pF/m)
Inductance* (@ 1 MHz)	.16 µH/ft. (.52 µH/m)
Propagation Delay*	1.47 ns/ft. (4.8 ns/m)

*Test Configuration: G-S-G (ground-signal-ground).

Unbalanced Crosstalk*



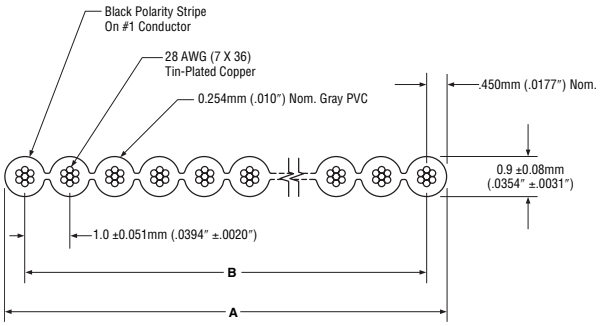
Attenuation*



Part No.	No. of Cond.	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
2L28026**	26	1.020 ±.008	25.9 ±.20	.984 ±.008	25.0 ±.20
2L28034**	34	1.335 ±.012	33.9 ±.30	1.299 ±.012	33.0 ±.30
2L28040**	40	1.571 ±.012	39.9 ±.30	1.535 ±.012	39.0 ±.30
2L28044**	44	1.728 ±.012	43.9 ±.30	1.693 ±.012	43.0 ±.30
2L28050	50	1.965 ±.012	49.9 ±.30	1.929 ±.012	49.0 ±.30

**Available in H100 packaging only.

Dimensions



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Gray Ribbon 9L280XX Series

.050″ Pitch, 28 AWG, PVC

Product Description

Belden's (9L280XX Series) .050″ pitch extruded gray ribbon cable was designed for general purpose electronic interconnect applications. The cable provides reliable mass-termination to standard .100″ contact IDC connectors, flexibility, consistent electricals and break-outs can be made easily with the tear feature design. The cable is constructed of stranded 28 AWG (7x36) tinned copper conductors. Insulation material consists of Gray PVC, with a Red polarity stripe for proper circuit alignment. Various conductor counts are standard; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

Color Code: Gray with Red polarity stripe (standard).

Application: Internal interconnection or internal wiring of electronic equipment.

Physical Specifications

Conductor	28 AWG (7x36) Tinned Copper
Insulation	.010″ Nom. Wall Gray PVC
Pitch	.050″ ± .002″
Temperature Rating	-40 to +105°C
Flammability Rating	UL: VW-1; CSA: FT1
UL Approval	File #E12683, Style 2651
CSA Approval	File #LL7874, CSA AWM I A 105°C 300V FT1
Packaging	H100, H300, R300

Electrical Specifications

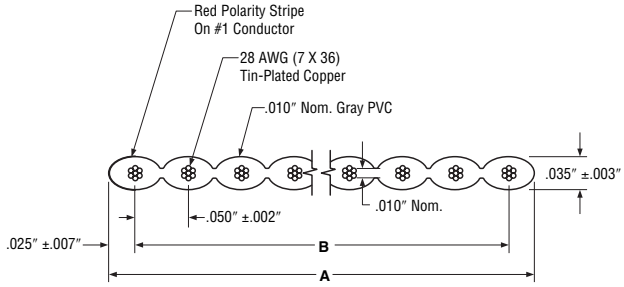
Voltage Rating	300V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10^{10}Ω • 10 ft. (3m)
Impedance*	105Ω
Capacitance* (@ 1 MHz)	15 pF/ft. (49 pF/m)
Inductance* (@ 1 MHz)	.20 µH/ft. (.66 µH/m)
Propagation Delay*	1.40 ns/ft. (4.6 ns/m)

*Test Configuration: G-S-G (ground-signal-ground).

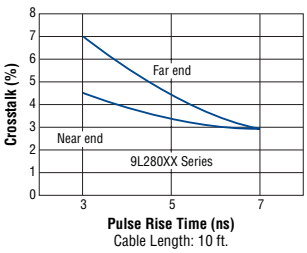
Part No. Standard [UL & CSA]	No. of Cond.	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9L28009	9	.45 ±.008	11.43 ±.20	.40 ±.008	10.16 ±.20
9L28010	10	.50 ±.008	12.70 ±.20	.45 ±.008	11.43 ±.20
9L28014†	14	.70 ±.008	17.78 ±.20	.65 ±.008	16.51 ±.20
9L28015**	15	.75 ±.008	19.05 ±.20	.70 ±.008	17.78 ±.20
9L28016	16	.80 ±.008	20.32 ±.20	.75 ±.008	19.05 ±.20
9L28020	20	1.00 ±.008	25.40 ±.20	.95 ±.008	24.13 ±.20
9L28024†	24	1.20 ±.008	30.48 ±.20	1.15 ±.008	29.21 ±.20
9L28025	25	1.25 ±.008	31.75 ±.20	1.20 ±.008	30.48 ±.20
9L28026	26	1.30 ±.008	33.02 ±.20	1.25 ±.008	31.75 ±.20
9L28034	34	1.70 ±.008	43.18 ±.20	1.65 ±.008	41.91 ±.20
9L28036**	36	1.80 ±.012	45.72 ±.30	1.75 ±.012	44.45 ±.30
9L28037**	37	1.85 ±.012	46.99 ±.30	1.80 ±.012	45.72 ±.30
9L28040	40	2.00 ±.012	50.80 ±.30	1.95 ±.012	49.53 ±.30
9L28050	50	2.50 ±.012	63.50 ±.30	2.45 ±0.12	62.23 ±.30
9L28060	60	3.00 ±.012	76.20 ±.30	2.95 ±.012	74.93 ±.30
9L28064	64	3.20 ±.012	81.28 ±.30	3.15 ±.012	80.01 ±.30

**Available in H100 packaging only.
† Not available in R300 packaging.

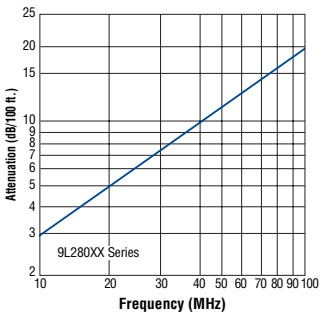
Dimensions



Unbalanced Crosstalk*



Attenuation*



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Gray Ribbon 9L260XX Series

.050″ Pitch, 26 AWG, PVC

Product Description

Belden's (9L260XX series) .050″ pitch extruded gray ribbon cable was designed for general purpose electronic interconnect applications where higher current carrying capacities are required. The design also conforms to the electrical performance specifications outlined by the SCSI-3 parallel interface document. As with the 9L280XX series, the cable provides reliable mass-termination to standard .100″ contact IDC connectors, flexibility, consistent electricals and breakouts can be made easily with the tear feature design. In addition, the overall cable thickness is only .038″ ± .002″ allowing mateability with all standard IDC connectors. The cable is constructed of stranded 26 AWG (7x34) tinned copper conductors. Insulation material consists of Gray PVC, with a Blue polarity stripe for proper circuit alignment. Various conductor counts are standard; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

Color Code: Gray with Blue polarity stripe (standard).

Application: Internal interconnection or internal wiring of electronic equipment.

Physical Specifications

Conductor	26 AWG (7x34) Tinned Copper
Insulation	.010″ Nom. Wall Gray PVC
Pitch	.050″ ± .002″
Temperature Rating	-40 to +105°C
Flammability Rating	UL: VW-1; CSA: FT1
UL Approval	File #E12683, Style 2651
CSA Approval	File #LL7874, CSA AWM I A 105°C 300V FT1
Packaging	H100, H300, R300

Electrical Specifications

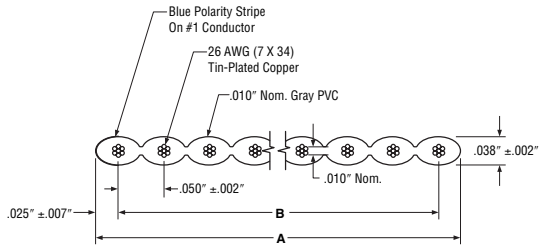
Voltage Rating	300V RMS
Current Rating	1.5A
Conductor Resistance	43Ω/1000 ft.
Insulation Resistance	>1 x 10^{10}Ω • 10 ft. (3m)
Impedance*	90Ω
Capacitance* (@ 1 MHz)	18 pF/ft. (59.06 pF/m)
Inductance* (@ 1 MHz)	.15 µH/ft. (.49 µH/m)
Propagation Delay*	1.48 ns/ft. (4.85 ns/m)

*Test Configuration: G-S-G (ground-signal-ground).

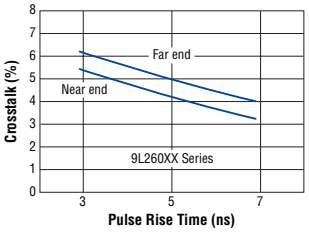
Part No. Standard [UL & CSA]	No. of Cond.	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9L26010	10	.50 ±.008	12.70 ±.20	.45 ±.008	11.43 ±.20
9L26014††	14	.70 ±.008	17.78 ±.20	.65 ±.008	16.51 ±.20
9L26016**	16	.80 ±.008	20.32 ±.20	.75 ±.008	19.05 ±.20
9L26020††	20	1.0 ±.008	25.40 ±.20	.95 ±.008	24.13 ±.20
9L26025**	25	1.25 ±.008	31.75 ±.20	1.20 ±.008	30.48 ±.20
9L26026††	26	1.30 ±.008	33.02 ±.20	1.25 ±.008	31.75 ±.20
9L26034**	34	1.70 ±.008	43.18 ±.20	1.65 ±.008	41.91 ±.20
9L26040†	40	2.00 ±.012	50.80 ±.30	1.95 ±.012	49.53 ±.30
9L26068**	68	3.40 ±.012	86.36 ±.30	3.35 ±.012	85.09 ±.30

**Available in H100 packaging only.
† Not available in H300 packaging.
†† Not available in R300 packaging.

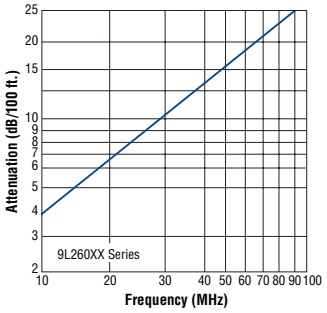
Dimensions



Unbalanced Crosstalk*



Attenuation*



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Rainbow 9R280XX Series

.050″ Pitch, 28 AWG, Color-coded PVC

Product Description

Belden's .050″ pitch, color-coded PVC flat cable allows for quick identification and circuit tracing, along with easy breakouts for circuit routing. Designed for mass-termination with standard IDC connectors, the cable is constructed of stranded 28 AWG (7x36) tinned copper conductors, color-coded PVC pre-insulated singles — laminated to a single clear PVC substrate. Fourteen various conductor counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

Color Code: Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Black. Sequence is repeated as necessary.

Application: Internal interconnection or internal wiring of electrical equipment.

Physical Specifications

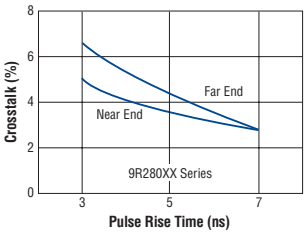
Conductor	28 AWG (7x36) Tinned Copper
Insulation	.010″ Nom. Wall Color-coded PVC
Substrate	.010″ Nom. Wall Clear PVC
Pitch	.050″ ± .005″
Temperature Rating	-20 to +105°C
Flammability Rating	UL: VW-1
UL Approval	File #E12663, Style 2884
CSA Approval	Available upon request
Packaging	100

Electrical Specifications

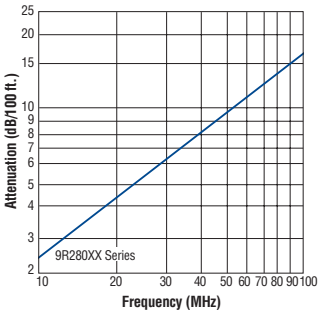
Voltage Rating	300V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10^{10}Ω • 10 ft. (3m)
Impedance*	105Ω
Capacitance* (@ 1 MHz)	15 pF/ft. (49 pF/m)
Inductance* (@ 1 MHz)	.20 µH/ft. (.66 µH/m)
Propagation Delay*	1.40 ns/ft. (4.6 ns/m)

*Test Configuration: G-S-G (ground-signal-ground).

Unbalanced Crosstalk*

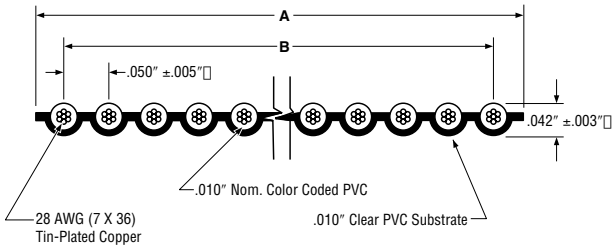


Attenuation*



Part No.	No. of Cond.	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9R28010	10	.50	12.70	.45 ±.007	11.43 ±.18
9R28014	14	.70	17.78	.65 ±.007	16.51 ±.18
9R28016	16	.80	20.32	.75 ±.011	19.05 ±.28
9R28020	20	1.00	25.40	.95 ±.011	24.13 ±.28
9R28024	24	1.20	30.48	1.15 ±.011	29.21 ±.28
9R28025	25	1.25	31.75	1.20 ±.011	30.48 ±.28
9R28026	26	1.30	33.02	1.25 ±.011	31.75 ±.28
9R28034	34	1.70	43.18	1.65 ±.011	41.91 ±.28
9R28037	37	1.85	46.99	1.80 ±.015	45.72 ±.38
9R28040	40	2.00	50.80	1.95 ±.015	49.53 ±.38
9R28050	50	2.50	63.50	2.45 ±.015	62.23 ±.38
9R28060	60	3.00	76.20	2.95 ±.015	74.93 ±.38
9R28064	64	3.20	81.28	3.15 ±.020	80.01 ±.51

Dimensions



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Rainbow 8R280XX Series

.050″ Pitch, 28 AWG, Color-coded FEP (High Temperature)

Product Description

Belden's .050″ pitch, color-coded FEP flat cable allows for high and low temperature, low out-gassing and chemical resistant applications, improved electricals, and provides quick identification and circuit tracing, along with easy breakouts for circuit routing. Designed for mass-termination with standard IDC connectors, the cable is constructed of stranded 28 AWG (7x36) silver-plated copper conductors, color-coded FEP pre-insulated singles — laminated to a single clear FEP substrate. Thirteen various conductor counts are standard; other sizes are available upon request. The cable is UL approved and passes the IEEE 383-1974, 70,000 BTU Flame Test.

Color Code: Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Black. Sequence is repeated as necessary.

Application: Internal wiring of appliances or electronic equipment. May be additionally marked "For 300V Peak Electronic Use Only."

Physical Specifications

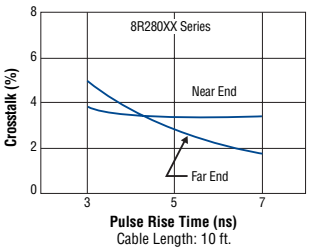
Conductor	28 AWG (7x36) Silver-plated Copper
Insulation	.010″ Nom. Wall Color-coded FEP
Substrate	.010″ Nom. Wall Clear FEP
Pitch	.050″ ± .005″
Temperature Rating	-70 to +150°C
Flammability Rating	UL: VW-1; IEEE: 383-1974 70,000 BTU
UL Approval	File #E12683, Style 20468
Packaging	100

Electrical Specifications

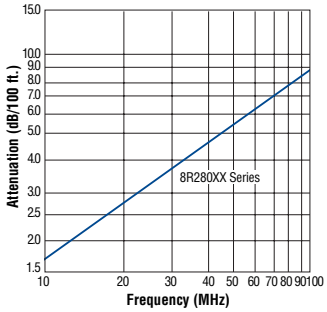
Voltage Rating	150V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10^{11}Ω • 10 ft. (3m)
Impedance*	120Ω
Capacitance* (@ 1 MHz)	10.5 pF/ft. (34.5 pF/m)
Inductance* (@ 1 MHz)	.18 µH/ft. (.59 µH/m)
Propagation Delay*	1.30 ns/ft. (4.3 ns/m)

*Test Configuration: G-S-G (ground-signal-ground).

Unbalanced Crosstalk*

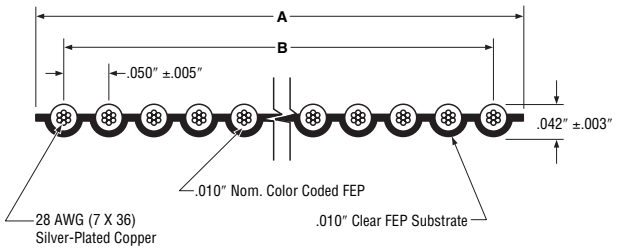


Attenuation*



Part No.	No. of Cond.	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
8R28010	10	.50	12.70	.45 ±.007	11.43 ±.18
8R28014	14	.70	17.78	.65 ±.007	16.51 ±.18
8R28016	16	.80	20.32	.75 ±.011	19.05 ±.28
8R28020	20	1.00	25.40	.95 ±.011	24.13 ±.28
8R28025	25	1.25	31.75	1.20 ±.011	30.48 ±.28
8R28026	26	1.30	33.02	1.25 ±.011	31.75 ±.28
8R28034	34	1.70	43.18	1.65 ±.011	41.91 ±.28
8R28037	37	1.85	46.99	1.80 ±.015	45.72 ±.38
8R28040	40	2.00	50.80	1.95 ±.015	49.53 ±.38
8R28050	50	2.50	63.50	2.45 ±.015	62.23 ±.38
8R28060	60	3.00	76.20	2.95 ±.015	74.93 ±.38
8R28064	64	3.20	81.28	3.15 ±.020	80.01 ±.51

Dimensions



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Vari-Twist® 9V280XX Series

.050″ Pitch, 28 AWG, PVC

Product Description

Belden's PVC Vari-Twist 9V280XX series was designed to reduce crosstalk in the balanced mode by twisting the pairs, but can be mass-terminated in the programmed flat sections with any standard IDC connector. To further reduce crosstalk, each adjacent pair is twisted in the opposite direction. The standard twist length is 18 inches followed by a 2 inch flat section of .050″ spaced conductors. The cable consists of stranded 28 AWG (7x36) tinned copper, color-coded PVC pre-insulated singles — laminated to a single clear PVC substrate. Eleven various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

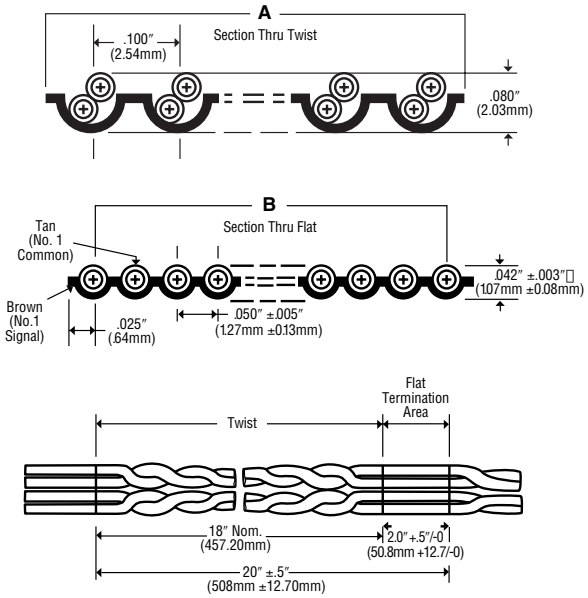
Upon your request, Vari-Twist can also be manufactured to your own specific requirements whether that be longer or shorter twist sections and/or flat sections.

Color Code: Each pair consists of a Tan conductor paired with a color-coded conductor. *Color Sequence Each Terminating Section:* Brown/Tan, Red/Tan, Orange/Tan, Yellow/Tan, Green/Tan, Blue/Tan, Purple/Tan, Gray/Tan, White/Tan, Black/Tan. Sequence is repeated as necessary.

Application: Internal interconnection or internal wiring of electronic equipment.

Part No.	No. of Pairs	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9V28010	5	.50	12.70	.45 ±.012	11.43 ±.31
9V28014	7	.70	17.78	.65 ±.012	16.51 ±.30
9V28016	8	.80	20.32	.75 ±.012	19.05 ±.30
9V28020	10	1.00	25.40	.95 ±.015	24.13 ±.38
9V28026	13	1.30	33.02	1.25 ±.015	31.75 ±.38
9V28034	17	1.70	43.18	1.65 ±.015	41.91 ±.38
9V28036	18	1.80	45.72	1.75 ±.017	44.45 ±.43
9V28040	20	2.00	50.80	1.95 ±.017	49.53 ±.43
9V28050	25	2.50	63.50	2.45 ±.017	62.23 ±.43
9V28060	30	3.00	76.20	2.95 ±.020	74.93 ±.51
9V28064	32	3.20	81.28	3.15 ±.020	80.01 ±.51

Dimensions



NOTE: the transition area is included in the twisted section to assure a full 2 Inches of flat termination area.

Physical Specifications

Conductor	28 AWG (7x36) Tinned Copper
Insulation	.010″ Nom. Wall Color-coded PVC
Substrate	.010″ Nom. Wall Clear PVC
Pitch	
Twisted Pair Centers:	.100″ Nom.
Conductor Centers in Flat:	.050″ ± .005″
Pairs	1/2″ Nom. Lay Adjacent Pairs have Opposite Direction Lay
Construction	18″ of Twisted Pairs 2″ of Flat Section
Temperature Rating	-20 to +105°C
Flammability Rating	UL: VW-1
UL Approval	File #E12683, Style Dual Rated 2693 & 2697
CSA Approval	Available Upon Request
Packaging	H100

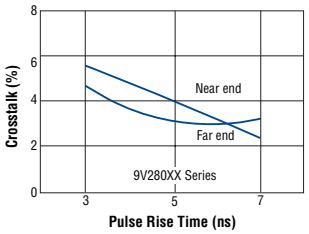
Electrical Specifications

Voltage Rating	300V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10^{10}Ω • 10 ft. (3m)
Impedance (Balanced)	115Ω
Impedance* (Unbalanced)	100Ω
Capacitance* (@ 1 MHz)	16 pF/ft. (52 pF/m)
Inductance* (@ 1 MHz)	.24 µH/ft. (.79 µH/m)
Propagation Delay*	1.60 ns/ft. (5.25 ns/m)

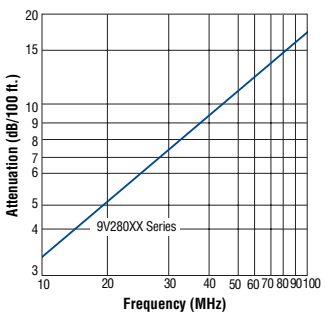
*Test Configuration: G-S (ground-signal), unbalanced.

Unbalanced Crosstalk*

(See page 7.14 for Balanced Crosstalk)



Attenuation*



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Vari-Twist® 8V280XX Series

.050″ Pitch, 28 AWG, FEP (High Temperature)

Product Description

Belden's FEP Vari-Twist 8V280XX series allows for high and low temperature, low out-gassing, and chemical resistant applications, improved electricals, and provides quick identification and circuit tracing. The cable was designed to reduce crosstalk in the balanced mode by twisting the pairs but can be mass-terminated in the programmed flat sections with any standard IDC connector. To further reduce crosstalk, each adjacent pair is twisted in the opposite direction. The standard twist length is 18 inches followed by a 2 inch flat section of .050″ spaced conductors. The cable consists of stranded 28 AWG (7x36) silver-plated copper, color-coded FEP pre-insulated singles — laminated to a single clear FEP substrate. Eight various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved and passes the IEEE 383-1974 70,000 BTU Flame Test.

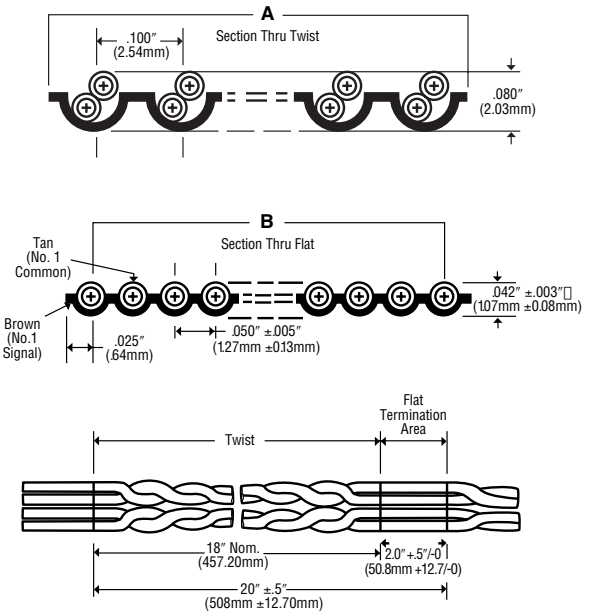
Upon your request, Vari-Twist can also be manufactured to your own specific requirements whether that be longer or shorter twist sections and/or flat sections.

Color Code: Each pair consists of a Tan conductor paired with a color-coded conductor. *Color Sequence Each Terminating Section:* Brown/Tan, Red/Tan, Orange/Tan, Yellow/Tan, Green/Tan, Blue/Tan, Purple/Tan, Gray/Tan, White/Tan, Black/Tan. Sequence is repeated as necessary.

Application: Internal wiring of appliances or electronic equipment. May be additionally marked "For 300V Peak Electronic Use Only."

Part No.	No. of Pairs	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
8V28010	5	.50	12.70	.45 ±.012	11.43 ±.31
8V28014	7	.70	17.78	.65 ±.012	16.51 ±.31
8V28020	10	1.00	25.40	.95 ±.015	24.13 ±.38
8V28026	13	1.30	33.02	1.25 ±.015	31.75 ±.38
8V28036	18	1.80	45.72	1.75 ±.017	44.45 ±.43
8V28040	20	2.00	50.80	1.95 ±.017	49.53 ±.43
8V28060	30	3.00	76.20	2.95 ±.020	74.93 ±.51

Dimensions



NOTE: the transition area is included in the twisted section to assure a full 2 Inches of flat termination area.

Physical Specifications

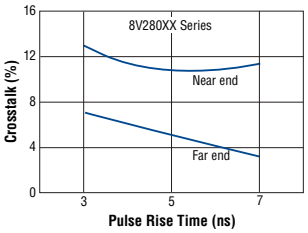
Conductor	28 AWG (7x36) Silver-plated Copper
Insulation	.010″ Nom. Wall Color-coded FEP
Substrate	.010″ Nom. Wall Clear FEP
Pitch	
Twisted Pair Centers:	.100″ Nom.
Conductor Centers in Flat:	.050″ ± .005″
Pairs	1/2″ Nom. Lay Adjacent Pairs have Opposite Direction Lay
Construction	18″ of Twisted Pairs 2″ of Flat Section
Temperature Rating	-70 to +150°C
Flammability Rating	UL: VW-1; IEEE 383-1974 70,000 BTU
UL Approval	File #E12683, Style 20468
Packaging	100

Electrical Specifications

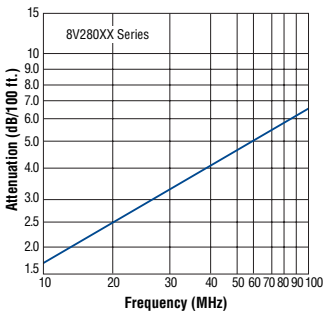
Voltage Rating	150V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10^{11}Ω • 10 ft. (3m)
Impedance (Balanced)	145Ω
Impedance* (Unbalanced)	130Ω
Capacitance* (@ 1 MHz)	10.6 pF/ft. (34.78 pF/m)
Inductance* (@ 1 MHz)	.22 µH/ft. (.72 µH/m)
Propagation Delay*	1.32 ns/ft. (4.33 ns/m)

*Test Configuration: G-S (ground-signal), unbalanced.

Unbalanced Crosstalk*



Attenuation*



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Shielded Jacketed 9L283XX Series

.050″ Pitch, 28 AWG, PVC

Product Description

Belden's shielded jacketed 9L283XX series was designed to help meet the FCC EMI/RFI requirements. In addition, the cable provides shielding from external electrical interference along with excellent crosstalk attenuation. The thin extruded jacket allows for greater flexibility, ease of termination, and reduced space requirements, while providing exterior protection from the environment. The core cable is Belden's 9L280XX PVC series allowing easy termination to any standard IDC connector. All cables are 100% shielded with a Duofoil® shield (aluminum/polyester/aluminum) and can be terminated with the two 28 AWG drain wires. Thirteen various conductor counts are standard; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

Color Code: Gray with Red polarity stripe.

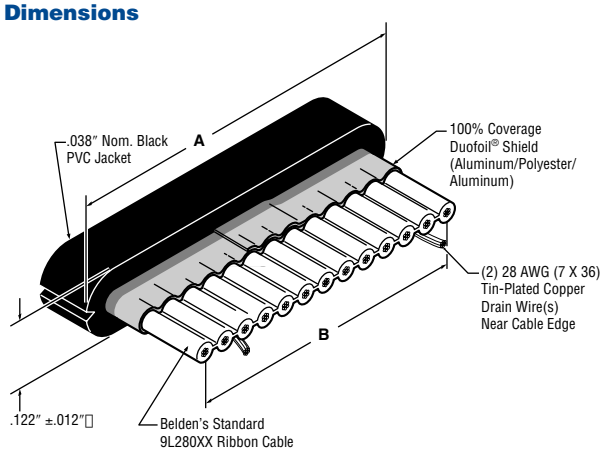
Application: External interconnection or internal wiring of electronic equipment.

Part No.	No. of Cond.	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9L28309	9	.55	13.97	.40 ±.008	10.16 ±.20
9L28310	10	.60	15.24	.45 ±.008	11.43 ±.20
9L28315	15	.85	21.59	.70 ±.008	17.78 ±.20
9L28320	20	1.10	27.94	.95 ±.008	24.13 ±.20
9L28325	25	1.35	34.29	1.20 ±.008	30.48 ±.20
9L28326	26	1.40	35.56	1.25 ±.008	31.75 ±.20
9L28334	34	1.80	45.72	1.65 ±.008	41.91 ±.20
9L28337	37	1.95	49.53	1.80 ±.012	45.72 ±.30
9L28340	40	2.10	53.34	1.95 ±.012	49.53 ±.30
9L28350	50	2.60	66.04	2.45 ±.012	62.23 ±.30
9L28360	60	3.10	78.74	2.95 ±.012	74.93 ±.30

Physical Specifications

Conductor	28 AWG (7x36) Tinned Copper
Insulation	.010″ Nom. Wall Gray PVC
Pitch	.050″ ± .002″
Shielding	Duofoil Shield (Aluminum/Polyester/Aluminum)
Drain Wires	Two 28 AWG (7x36) Tinned Copper
Jacket	.038″ Nom. Wall Black PVC
Temperature Rating	-20 to +105°C
Flammability Rating	UL: VW-1; CSA: FT1
UL Approval	File #E12683, Style 20081
CSA Approval	File #LL7874, CSA AWM II A 105°C 300V FT1
Packaging	100

Dimensions

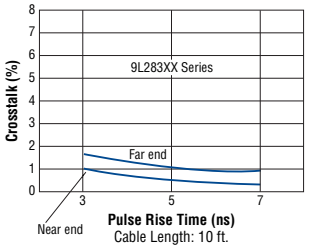


Electrical Specifications

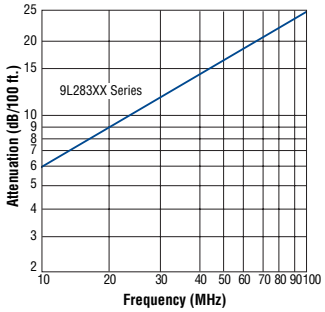
Voltage Rating	300V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10^{10}Ω • 10 ft. (3m)
Impedance*	45Ω
Capacitance* (@ 1 MHz)	50 pF/ft. (164 pF/m)
Inductance* (@ 1 MHz)	.11 µH/ft. (.36 µH/m)
Propagation Delay*	1.70 ns/ft. (5.6 ns/m)

*Test Configuration: G-S-G (ground-signal-ground), with shield grounded.

Unbalanced Crosstalk*



Attenuation*



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Shielded Jacketed Vari-Twist® 9V283XX Series

.050″ Pitch, 28 AWG, PVC

Product Description

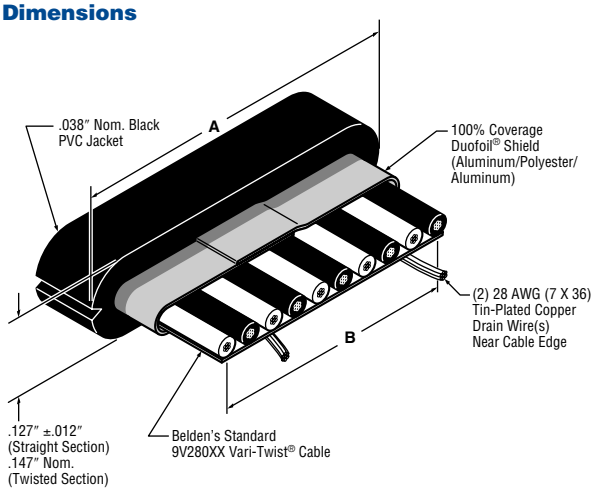
Belden's shielded jacketed 9V283XX series was designed to help meet the FCC EMI/RFI requirements. In addition, the cable provides shielding from external electrical interference along with excellent crosstalk attenuation. As with the 9V280XX series, the cable supplies the electrical benefits of twisted pairs, but can be mass-terminated in the programmed flat sections. The thin extruded jacket allows for greater flexibility, ease of termination, reduced space requirements, and identification of the flat sections while providing exterior protection from the environment. The core cable is Belden's 9V280XX PVC series to allow easy termination to any standard IDC connector. All cables are 100% shielded with a Duofoil® shield (aluminum/polyester/aluminum) and can be terminated with the two 28 AWG drain wires. Ten various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

Color Code: Each pair consists of a Tan conductor paired with a color-coded conductor. *Color Sequence Each Terminating Section:* Brown/Tan, Red/Tan, Orange/Tan, Yellow/Tan, Green/Tan, Blue/Tan, Purple/Tan, Gray/Tan, White/Tan, Black/Tan. Sequence is repeated as necessary.

Application: External interconnection or internal wiring of electronic equipment.

Part No.	No. of Pairs	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9V28310	5	.60	15.24	.45 ±.012	11.43 ±.30
9V28314	7	.80	20.32	.65 ±.012	16.51 ±.30
9V28326	13	1.40	35.56	1.25 ±.015	31.75 ±.38
9V28334	17	1.80	45.72	1.65 ±.015	41.91 ±.38
9V28350	25	2.60	66.04	2.45 ±.017	62.23 ±.43

Dimensions



NOTE: the transition area is included in the twisted section to assure a full 2 Inches of flat termination area.

Physical Specifications

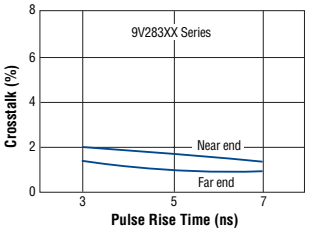
Conductor	28 AWG (7x36) Tinned Copper
Insulation	.010″ Nom. Wall Color-coded PVC
Substrate	.010″ Nom. Wall Clear PVC
Pitch	
Twisted Pair Centers:	.100″ Nom.
Conductor Centers in Flat:	.050″ ± .005″
Pairs	1/2″ Nom. Lay Adjacent Pairs have Opposite Direction Lay
Construction	18″ of Twisted Pairs 2″ of Flat Section
Shielding	Duofoil Shield (Aluminum/Polyester/Aluminum)
Drain Wires	Two 28 AWG (7x36) Tinned Copper
Jacket	.038″ Nom. Wall Black PVC
Temperature Rating	-20 to +105°C
Flammability Rating	UL: VW-1
UL Approval	File #E12683, Style 20081
CSA Approval	Available Upon Request
Packaging	100

Electrical Specifications

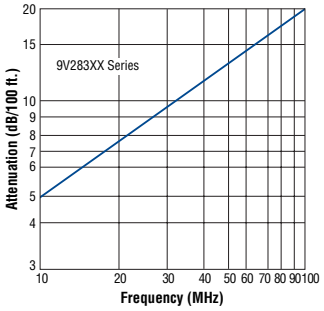
Voltage Rating	300V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10^{10}Ω • 10 ft. (3m)
Impedance (Balanced)	100Ω
Impedance* (Unbalanced)	60Ω
Capacitance* (@ 1 MHz)	29 pF/ft. (95 pF/m)
Inductance* (@ 1 MHz)	.13 µH/ft. (.43 µH/m)
Propagation Delay*	1.60 ns/ft. (5.25 ns/m)

*Test Configuration: G-S-G (ground-signal-ground) with shield grounded.

Unbalanced Crosstalk*



Attenuation*



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Technical Information

Flat Cable Crosstalk Testing

The following is a description of two methods Belden uses to test its flat cable for crosstalk. Because these methods are different, the results may be different even when the same type of cable is used in each test. In short, the reader is offered two different tests to determine which cable type has the best crosstalk characteristics. At times, the results of these two test methods do not agree. Therefore, it is best for the reader to determine which method most closely approximates actual cable application and use its results for cable comparisons.

Unbalanced Crosstalk

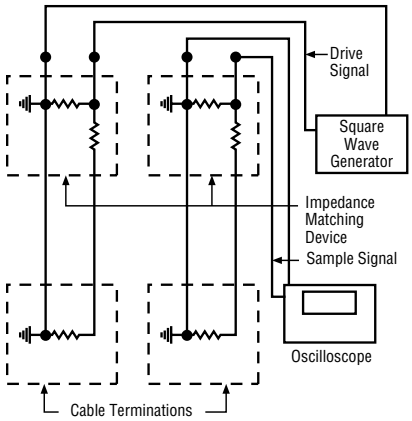
The unbalanced crosstalk of flat cables is measured as shown in Figure 1. One end of the cable drive is connected through an impedance matching device to a signal generator. The other end of the drive line is terminated in its characteristic impedance. The signal generator is capable of generating square wave pulses of varying leading edge rise times.

A test signal from the signal generator is inserted into the drive line. The cable is connected as follows: Ground-Drive line-Ground-Sample line-Ground or GSG mode. The sample line is also terminated at both ends in its characteristic impedance. The signal at each end of the sample line is measured. The signal at the signal generator end of the sample line is called the near end or reverse crosstalk. The signal at the opposite end of the sample line is called the far end or forward crosstalk. The actual crosstalk figures are given in % and are calculated as follows:

$$\% \text{ Crosstalk} = \frac{\text{Signal in sample line}}{\text{Signal in drive line}} \times 100\%$$

This type of crosstalk test is widely accepted in the flat cable industry. It is a very good method to determine the pulse crosstalk of all types of flat cables connected in the GSG mode. Crosstalk data for Belden flat cables tested using this method is given in the electrical data section of each cable.

Figure 1: Unbalanced Near End Crosstalk



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Technical Information

Flat Cable Crosstalk Testing

Balanced Crosstalk

Twisted pair flat cables are not designed to be connected in the GSG mode. These cables provide positive crosstalk reduction over non-twisted pair cables when used in the balanced mode. The balanced crosstalk of twisted pair flat cables is measured as shown in Figure 2. One end of the cable drive pair is connected through a balanced impedance matching transformer to the network analyzer input. The other end of the cable drive pair is terminated in its characteristic impedance. One end of the sample pair is terminated in its characteristic impedance. The other end of the cable sample pair is connected through a balanced impedance matching transformer to the network analyzer output. Because impedance matching transformers are used, none of the wires in the drive or sample line share a common ground. The signal in each line is balanced to ground. For example, one wire of the line will carry the inverse of the signal in the other wire in the same line at any given moment. The signal from the tracking generator is a range of frequencies, typically from 10 MHz to 100 MHz. The signal at each end of the sample line is measured in units of dB of isolation using a spectrum analyzer. The crosstalk results of two cables, one with parallel non-twisted conductors (9L Series) and the other with twisted pair conductors (9V Series) is shown in Figure 3.

In conclusion, it is not the intent of this section to recommend one type of crosstalk testing over another. Rather, it is intended to demonstrate there are different cable types for the different cable applications.

Please choose the crosstalk testing method which most closely approximates your application.

Figure 2: Balanced Near End Crosstalk

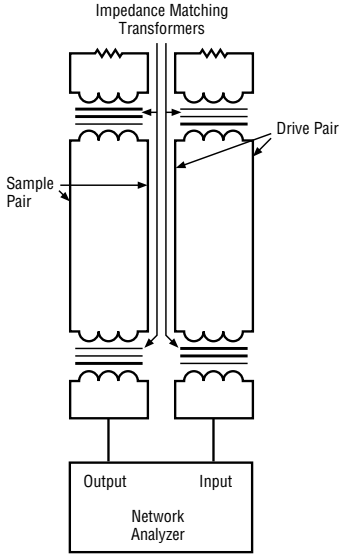
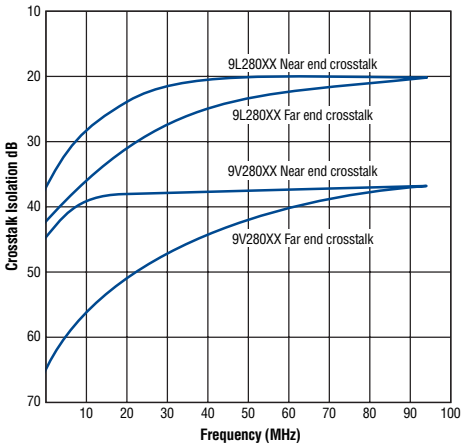


Figure 3: Balanced Crosstalk



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BELDEN
SENDING ALL THE RIGHT SIGNALS



8 Molded Cable Assemblies

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D-Subminiature Retention Systems	8.12
How To Measure A Molded Cable Assembly	8.12



Please refer to “Terms of Use of Master Catalog” on page 22.22

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Introduction

Quality Construction

Belden® molded cable assemblies are designed for long life and reliable performance in a variety of input/output (I/O) and keyboard interface applications. Among the many features of the cable assemblies are these performance-enhancing attributes:

Shielding

Molded handles are 100% shielded (where used) to assist in FCC compliance while guarding against EMI and RFI. Shield continuity is maintained through the entire length of the assembly. The connector shield is connected to both the connector shell and the cable shield. This provides a low resistance ground path to optimize shield performance.

Handles

Straight or right angle handles are available for different connecting situations. Standard molding is PVC.

Connectors

Connectors consist of tin-plated shells with grounding indents on male connectors. Pins and sockets are constructed of brass or phosphor-bronze base with gold selectively plated over nickel.

Retention Systems

Belden offers several types of retention systems. They include:

- **Friction:** Pin/contact force holds connectors mated.
- **Screw:** Retaining screws mate with female screwlocks. Straight handle uses two screws; right angle handle uses one screw. Screws are #4-40 thread of plated steel with stainless steel clips.
- **Slide Lock:** Fingertip-operated slide mechanism holds mated connectors securely. Slide lock clip is stainless steel with plated screw, washer, and hex nut.
- **Spring Latch:** Stainless steel latch mates with latching blocks (special orders only).
- **Jack Screw:** Two captive jacks crews mate securely with female screwlocks. Zinc plated, #4-40 thread screws with large knurled heads for easy fingertip connect/disconnect.

Wiring Patterns

Standard wiring is point-to-point on most assemblies. Special wiring is available upon request.

Cables

For standard assemblies, Belden utilizes three standard cable configurations for tailoring a cable to a specific electrical environment. The cable configurations are as follows:

- **General Purpose Unshielded:** An economical assembly where electrical noise/interference is not a problem.
- **General Purpose Shielded:** An overall foil shielded assembly for use in situations where some noise/interference is experienced or anticipated.
- **Super Shield:** A foil plus braid shield provides extra protection in areas of moderate to heavy noise/interference.

Most of our molded cable assemblies are available from stock in a wide variety of handles, cables, colors, retention systems, and wiring patterns. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find molded cables in this catalog section that meet your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Molded Cable Assemblies Packaging

Unless otherwise indicated, molded cable assemblies are shipped in individual packages or plastic bags with printed part numbers, descriptions and an area to indicate the retail price.

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D-Subminiature Assembly

Shielded 9-Position and 15-Position

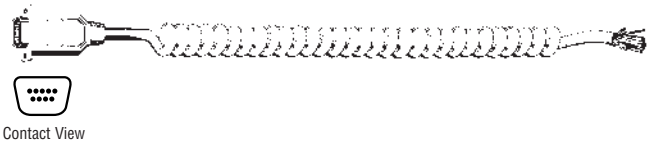
9-Position Shielded D-Sub • Male Straight Handle One End • For keyboard-to-CRT use where 9-pin retractile is desired

Foil Shield (General Purpose) • **Retractile** • **Polypropylene Insulation** • **Black Polyurethane Jacket**

Part No.	No. of Cond.	Length of Body: Retracted Inch	Retracted mm	Extended Inch	Extended mm	Length of Tail: Connector End Inch	Connector End mm	Other End Inch	Other End mm	Conductors AWG (stranding) [Dia. in mm]	Shield: Type	Shield: Drain Wire	Insulation Thickness Inch	Insulation Thickness mm	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm
49911A	9	18	457	90	2286	6	152	18	457	26 (19x38) Tinned Copper [.53]	Overall Foil	20 (42x36)	.006	.15	.065	1.65	.250	6.35

Polyurethane jacket provides superior retractile properties at a reasonable cost.
Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI.
All connectors are tin-plated with detents for a positive ground connection.
The end opposite the connector is stripped. Jack screw retention on male connector.

30V 60°C, UL AWM Style 20197



Contact View

Part No.	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Gender	UL NEC/ (C)UL CEC Type	Conductors AWG (stranding) [Dia. in mm]	Shield: Type	Shield: Drain Wire	Insulation Thickness Inch	Insulation Thickness mm	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm

9-Position Shielded D-Sub • Straight Handle Both Ends • For RS-449 applications

Foil Shield (General Purpose) • **Semi-rigid PVC Insulation** • **Chrome PVC Jacket**

49900A	9	5	1.5	Male/Male	NEC: CM	24 (7x32) Tinned Copper [.61]	Overall Foil	24 (7x32)	.010	.25	.032	.81	.244	6.20
49901A	9	10	3.0	Male/Male										
49902A	9	25	7.6	Male/Male										
49905A	9	5	1.5	Male/Female										
49906A	9	10	3.0	Male/Female										
49907A	9	25	7.6	Male/Female										

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors tin-plated and male connectors have detents for positive ground connection. Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



Contact View



Contact View

15-Position Shielded D-Sub • Straight Handle Both Ends • For any 15-pin application exposed to high-noise environment

Foil Shield (General Purpose) • **Semi-rigid PVC Insulation** • **Chrome PVC Jacket**

49721A	15	10	3.0	Male/Male	NEC: CM	24 (7x32) Tinned Copper [.61]	Overall Foil	24 (7x32)	.010	.25	.032	.81	.284	7.21
49725A	15	5	1.5	Male/Female										
49726A	15	10	3.0	Male/Female										

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors tin-plated and male connectors have detents for positive ground connection. Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



Contact View



Contact View

Foil plus Braid Shield (Super Shield) • **Semi-rigid PVC Insulation** • **Chrome PVC Jacket**

49740A	15	5	1.5	Male/Male	NEC: CM	24 (7x32) Tinned Copper [.61]	Overall Foil + 65% Braid	None	.010	.25	.035	.89	.300	7.62
49745A	15	5	1.5	Male/Female										
49746A	15	10	3.0	Male/Female										
49747A	15	25	7.6	Male/Female										

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors tin-plated and male connectors have detents for positive ground connection. Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



Contact View



Contact View

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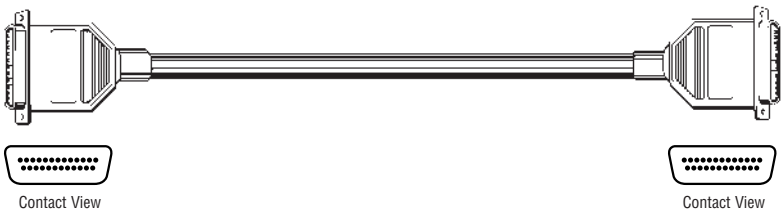
D-Subminiature Assembly

Shielded 25-Position

Part No.	No. of Cond.	Standard Lengths		Gender	UL NEC/ (C)UL CEC Type	Conductors AWG (stranding) [Dia. in mm]	Shield		Insulation Thickness		Jacket Thickness		Nominal OD	
		Ft.	m				Type	Drain Wire	Inch	mm	Inch	mm	Inch	mm
25-Position Shielded D-Sub • Straight Handle Both Ends • For RS-232 applications														
Foil Shield (General Purpose) • **Semi-rigid PVC Insulation** • **Chrome PVC Jacket**														
49668A	25	5	1.5	Male/Male	NEC: CM	24 (7x32) Tinned Copper [.61]	Overall Foil	24 (7x32)	.010	.25	.032	.81	.339	8.61
49669A	25	10	3.0	Male/Male										
49673A	25	5	1.5	Male/Female										
49674A	25	10	3.0	Male/Female										
49675A	25	25	7.6	Male/Female										
49676A	25	50	15.2	Male/Female										

Molded handles are 100% shielded to guard against EMI/RFI where indicated. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464

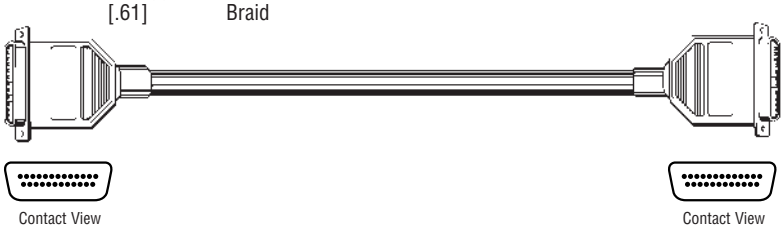


Contact View Contact View

Foil plus Braid Shield (Super Shield) • **Semi-rigid PVC Insulation** • **Chrome PVC Jacket**														
49615A	25	5	1.5	Male/Female	NEC: CM	24 (7x32) Tinned Copper [.61]	Overall Foil + 65% Braid							
49616A	25	10	3.0	Male/Female										
49617A	25	25	7.6	Male/Female										

Molded handles are 100% shielded to guard against EMI/RFI where indicated. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



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D-Subminiature Assembly

Unshielded 25-Position, Shielded 37-Position and 50-Position

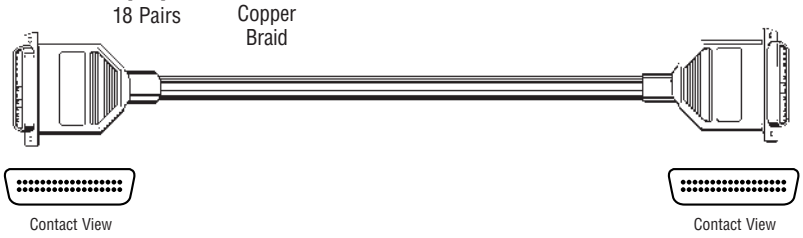
37-Position Shielded D-Sub • Straight Handle Both Ends • For RS-449 applications where assembly is exposed to high noise environment

Foil plus Braid Shield (Super Shield) • **Semi-rigid PVC Insulation** • **Chrome PVC Jacket**

Part No.	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Gender	UL NEC/ (C)UL CEC Type	Conductors AWG (stranding) [Dia. in mm]	Shield Type	Shield Drain Wire	Insulation Thickness Inch	Insulation Thickness mm	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm
49950A	36	5	1.5	Male/Male	NEC: CM	24 (7x32) Tinned Copper [.61] 18 Pairs	Overall Foil + 65% Tinned Copper Braid	None	.010	.25	.045	1.14	.480	12.19
49951A	36	10	3.0	Male/Male										
49952A	36	25	7.6	Male/Male										
49955A	36	5	1.5	Male/Female										
49956A	36	10	3.0	Male/Female										
49957A	36	25	7.6	Male/Female										

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell and pin #1. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



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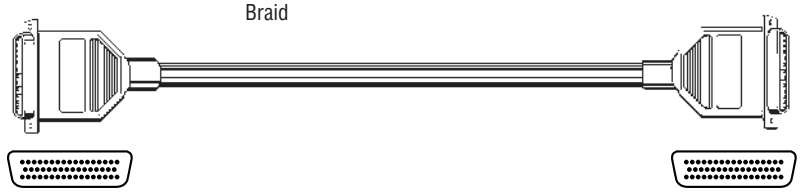
50-Position Shielded D-Sub • Straight Handle Both Ends • For high-density applications where assembly is exposed to high noise environment

Foil plus Braid Shield (General Purpose) • **Polyethylene Insulation** • **Chrome PVC Jacket**

Part No.	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Gender	UL NEC/ (C)UL CEC Type	Conductors AWG (stranding) [Dia. in mm]	Shield Type	Shield Drain Wire	Insulation Thickness Inch	Insulation Thickness mm	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm
49760A	50	5	1.5	Male/Male	NEC: CM	26 (7x34) Tinned Copper [.48] 25 Pairs	Overall Foil + 91% Tinned Copper Braid	22 (7x30)	.010	.25	.049	1.24	.535	13.59
49761A	50	10	3.0	Male/Male										
49765A	50	5	1.5	Male/Female										
49766A	50	10	3.0	Male/Female										

Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

30V 80°C, UL AWM Style 2919



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SCSI Cable Assembly

SCSI-1 and SCSI-2

Shielded Straight and Right-Angled Handles

Part No.	No. of Cond.	Standard Lengths		Gender	UL NEC/ (C)UL CEC Type	Conductors AWG (stranding) [Dia. in mm]	Shield		Insulation Thickness		Jacket Thickness		Nominal OD	
		Ft.	m				Type	Drain Wire	Inch	mm	Inch	mm	Inch	mm
SCSI-1 Assemblies (26 AWG) • Shielded Straight Handles • For SCSI (Small Computer Systems Interface) applications														
Foil plus Braid Shield (Super Shield) • **Polyethylene Insulation** • **Chrome PVC Jacket**														
49802A	50	16.4	5	Male/Male	NEC: CM	26 (7x34) Tinned Copper [.48] 25 Pairs	Overall Foil + 90% Braid	22 (7x30) TC	.01	.254	.049	1.245	.535	13.589

Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance. These assemblies have tin-plated connectors and can be used in single-ended or differential configurations. Wiring is per SCSI standard.

30V 80°C, UL AWM Style 2919



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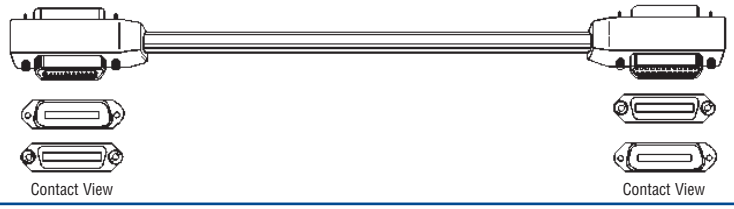
GPIB (General Purpose Interface Bus) Assembly

Unshielded and Shielded Connectors

Part No.	No. of Cond.	Standard Lengths		Gender	UL NEC/ (C)UL CEC Type	Conductors AWG (stranding)	Shield		Insulation Thickness		Jacket Thickness		Nominal OD	
		Ft.	m				Type	Drain Wire	Inch	mm	Inch	mm	Inch	mm
Unshielded GPIB • Molded PVC Connector • For use with electronic equipment that is IEEE-488 compatible														
Foil plus Braid Shield (Super Shield) • **Semi-rigid PVC Insulation** • **Gull Gray PVC Jacket**														
49642	23	3.3	1	Male/Female Each End	NEC: CM	6 Pairs: 26 (7x34) TC 10 Singles: 26 (7x34) TC 1 Single: 24 (7x32) TC	Overall Foil + 90% Braid	26 (7x34)	.010	.25	.035	.89	.350	8.89
49643	23	6.6	2	Male/Female Each End										
49645	23	26.2	8	Male/Female Each End										
Shielded GPIB • Die Cast Connector • For use with electronic equipment that is IEEE-488 compatible														
Foil plus Braid Shield (Super Shield) • **Semi-rigid PVC Insulation** • **Gull Gray PVC Jacket**														
49635	23	3.3	1	Male/Female Each End	NEC: CM	6 Pairs: 26 (7x34) TC 10 Singles: 26 (7x34) TC 1 Single: 24 (7x32) TC	Overall Foil + 90% Braid	26 (7x34)	.010	.25	.035	.89	.350	8.89
49636	23	6.6	2	Male/Female Each End										
49637	23	9.8	3	Male/Female Each End										
Shielded GPIB • Molded PVC Connector • For use with electronic equipment that is IEEE-488 compatible														
Foil plus Braid Shield (Super Shield) • **Semi-rigid PVC Insulation** • **Gull Gray PVC Jacket**														
49733	23	1.6	.5	Male/Female Each End	NEC: CM	6 Pairs: 26 (7x34) TC 10 Singles: 26 (7x34) TC 1 Single: 24 (7x32) TC	Overall Foil + 90% Braid	26 (7x34)	.010	.25	.035	.89	.350	8.89
49734	23	3.3	1	Male/Female Each End										
49735	23	6.6	2	Male/Female Each End										
49736	23	9.8	3	Male/Female Each End										
49737	23	13.1	4	Male/Female Each End										

Molded connector is male/female design for easy stacking and comes with molded-in metric jack screws.

300V 80°C, UL AWM Style 2464



Contact View



Contact View

Die cast connector is male/female design for easy stacking and comes with molded-in metric jack screws.

300V 80°C, UL AWM Style 2464

Contact View

Molded connector is male/female design for easy stacking and comes with molded-in metric jack screws.

300V 80°C, UL AWM Style 2464



Contact View

TC = Tinned Copper

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DIN* Cable Assembly

Shielded 3-Position, 5-Position and 8-Position

Part No.	No. of Cond.	Standard Lengths		UL NEC/ (C)UL CEC Type	Conductors AWG (stranding) [Dia. in mm]	Shield		Insulation Thickness		Jacket Thickness		Nominal OD	
		Ft.	m			Type	Drain Wire	Inch	mm	Inch	mm	Inch	mm
5-Position Shielded DIN • Straight Handle One End • Used where a shielded conductor is desired and as a low cost alternative to a D-Sub													
Foil Shield (General Purpose) • **PVC Insulation** • **Black PVC Jacket**													
49152A	5	10	3.0	NEC: CM	26 (19x38) Tinned Copper [.51]	Overall Foil	26 (19x38)	.014	.36	.053	1.35	.251	6.38
Foil shielded for moderate-noise environments. Outer jacket stripped 1 inch. 300V 80°C, UL AWM Style 2464. Packaged: B-25, S-25													
49153A	5	10	3.0	NEC: CM	26 (19x38) Tinned Copper [.51]	Overall Foil + 90% Tinned Copper Braid	26 (19x38)	.014	.36	.037	.94	.231	5.87
Foil and braid shielded for high-noise environments. Outer jacket stripped 1 inch. 300V 80°C, UL AWM Style 2464. Packaged: B-25, S-25													
8-Position Shielded DIN • Straight Handle One End • Used where a shielded conductor is desired and as a low cost alternative to a D-Sub													
Foil Shield (General Purpose) • **PVC Insulation** • **Black PVC Jacket**													
49154A	8	10	3.0	NEC: CM	26 (19x38) Tinned Copper [.51]	Overall Foil	26 (19x38)	.014	.36	.052	1.32	.266	6.76
Foil shielded for moderate-noise environments. Outer jacket stripped 1 inch. 300V 80°C, UL AWM Style 2464. Packaged: B-25, S-25													



Contact View





Contact View





Contact View



*DIN Standard (Deutsche Industries Norm)

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DIN* Cable Assembly

Shielded 5-Position and 8-Position Retractile

Part No.	No. of Cond.	Length of Body				Length of Tail				Conductors AWG (stranding) [Dia. in mm]	Shield		Insulation Thickness		Jacket Thickness		Nominal OD	
		Retracted		Extended		Connector End		Other End			Type	Drain Wire						
		Inch	mm	Inch	mm	Inch	mm	Inch	mm				Inch	mm	Inch	mm	Inch	mm
5-Position Shielded DIN • Straight Handle • Standard friction-fit connectors mate easily with many microcomputer keyboard ports																		
Foil plus Serve Shield (Super Shield) • **Retractile** • **PVC Insulation** • **Black PVC Jacket**																		
49103A	5	14.5	368.3	72.5	1841.5	12	304.8	18	457.20	26 (19x38) Tinned Copper [.51]	Foil + 95% Serve	26 (19x38)	.014	.36	.058	1.47	.260	6.60

Shielded connectors maintain shield integrity and assist in FCC compliance.
Utilizes 26 AWG conductor for low voltage drop. Ideal for higher noise situations.

300V 80°C, UL AWM Style 2464. Packaged: S-25



Contact View



NEC: CM

DIN Pin Configurations • Face Views



3-Position



4-Position**



5-Position @ 180°



5-Position** @ 240°



6-Position**



7-Position**



8-Position

**Available by special order

*DIN Standard (Deutsche Industries Norm)

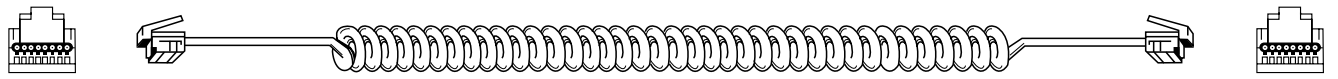
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Modular Keyboard Assemblies

4-Position, 6-Position and 8-Position with Retractile Cables
Unshielded or Shielded Modular Plugs

Part No.	No. of Cond.	Length of Cord						Conductors AWG (stranding) [Dia. in mm]	Shield		Insulation Thickness		Jacket Thickness		Nominal OD	
		Body Retracted		Body Extended		Tail Length			Type	Drain Wire	Inch	mm	Inch	mm	Inch	mm
		Inch	mm	Inch	mm	Inch	mm									
4-Position Modular Plugs • Used to rapidly interconnect electronic computers and business machines																
Unshielded (General Purpose) • **Retractile** • **Polypropylene Insulation** • **Black or CRT White Polyurethane Jacket**																
49440	4	15	381	67.5	1714.50	1	25.40	26 (19x38) Tinned Copper [.51]	None	None	.006	.15	.030	.76	.093 x .198	2.36 x 5.03
Positive locking latch prevents connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. 30V 60°C, UL AWM Style 20197. Packaged: B-25, S-25																
6-Position Modular Plugs • Used to rapidly interconnect electronic computers and business machines																
Unshielded (General Purpose) • **Retractile** • **Polypropylene Insulation** • **Black Polyurethane Jacket**																
49441	6	15	381	67.5	1714.50	1	25.40	26 (19x38) Tinned Copper [.51]	None	None	.006	.15	.030	.76	.093 x .258	2.36 x 6.55
Positive locking latch prevents connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. 30V 60°C, UL AWM Style 20197. Packaged: B-25, S-25																
8-Position Modular Plugs • Used to rapidly interconnect electronic computers and business machines																
Unshielded (General Purpose) • **Retractile** • **Polypropylene Insulation** • **Black or CRT White Polyurethane Jacket**																
49442	8	15	381	67.5	1714.50	1	25.40	26 (19x38) Tinned Copper [.51]	None	None	.006	.15	.030	.76	.100 x .314	2.54 x 7.98
Positive locking latch prevents connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. 30V 60°C, UL AWM Style 20197. Packaged: B-25, S-25																
Foil Shield* • **Retractile** • **Polypropylene Insulation** • **Black Polyurethane Jacket**																
49402	7	15	381	67.5	1714.50	1	25.40	26 (19x38) Tinned Copper [.51]	Foil	26 (19x38)	.006	.15	.030	.76	.100 x .314	2.54 x 7.98
Positive locking latch prevents connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. A longitudinal aluminum/polyester shield protects against ESD and EMI. 30V 60°C, UL AWM Style 20197. Packaged: S-25																



Contact View

Contact View

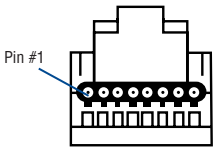
Modular Plug Wiring Schemes

Cross wiring is standard on non-shielded constructions

1.....4
2.....3
3.....2
4.....1

Straight wiring is standard on shielded constructions

1.....1
2.....2
3.....3
4.....4



*In shielded versions, the drain wire is always the highest numbered position in the connector.

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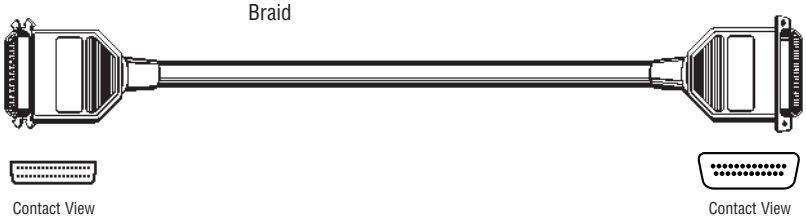
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Parallel Interface Assembly

Part No.	No. of Cond.	Standard Lengths		Gender	UL NEC/ (C)UL CEC Type	Conductors AWG (stranding) [Dia. in mm]	Shield		Insulation Thickness		Jacket Thickness		Nominal OD	
		Ft.	m				Type	Drain Wire	Inch	mm	Inch	mm	Inch	mm
Parallel Interface Assemblies • Centronics/D-Sub Connectors • For computer-printer parallel interface														
Shielded • Foil plus Braid Shield (Super Shield) • **Semi-rigid PVC Insulation • Chrome PVC Jacket**														
49502A	25	10	3.0	Male/Male	NEC: CM	24 (7x32) Tinned Copper [.61]	Overall Foil + 65% Tinned Copper Braid	None	.010	.25	.040	1.02	.370	9.40

Universal 36-position ribbon connector (Centronics compatible) on one end and a 25-position D-Subminiature connector (IBM PC and PC-XT compatible) on the other. Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance.

300V 80°C, UL AWM Style 2464



Contact View

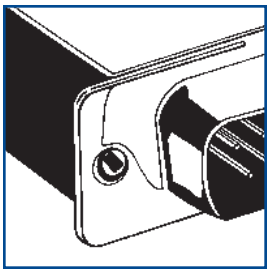
Contact View

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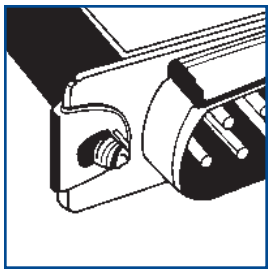
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Technical Information

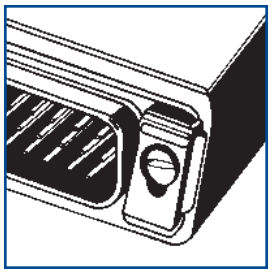
D-Subminiature Retention Systems



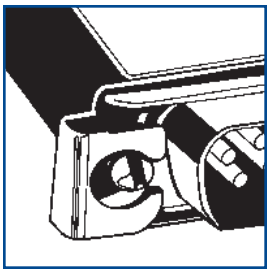
Friction



Screw

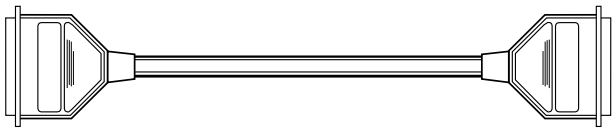


Vertical Slide Lock



Horizontal Slide Lock

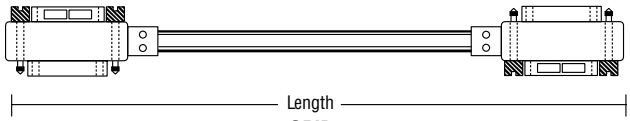
How to Measure a Molded Cable Assembly



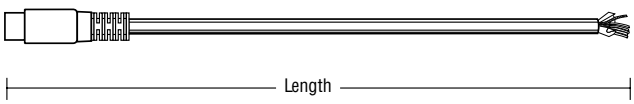
Straight Handled Connector



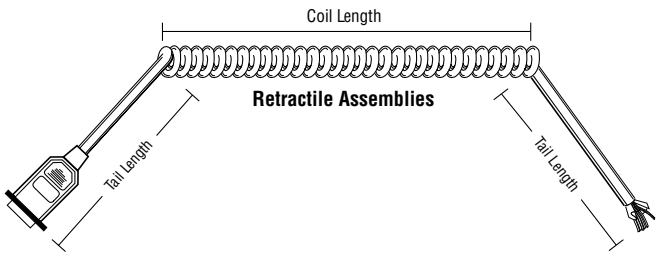
Angled Handled Connector



GPIB



DIN



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SENDING ALL THE RIGHT SIGNALS



9 Portable Cordage

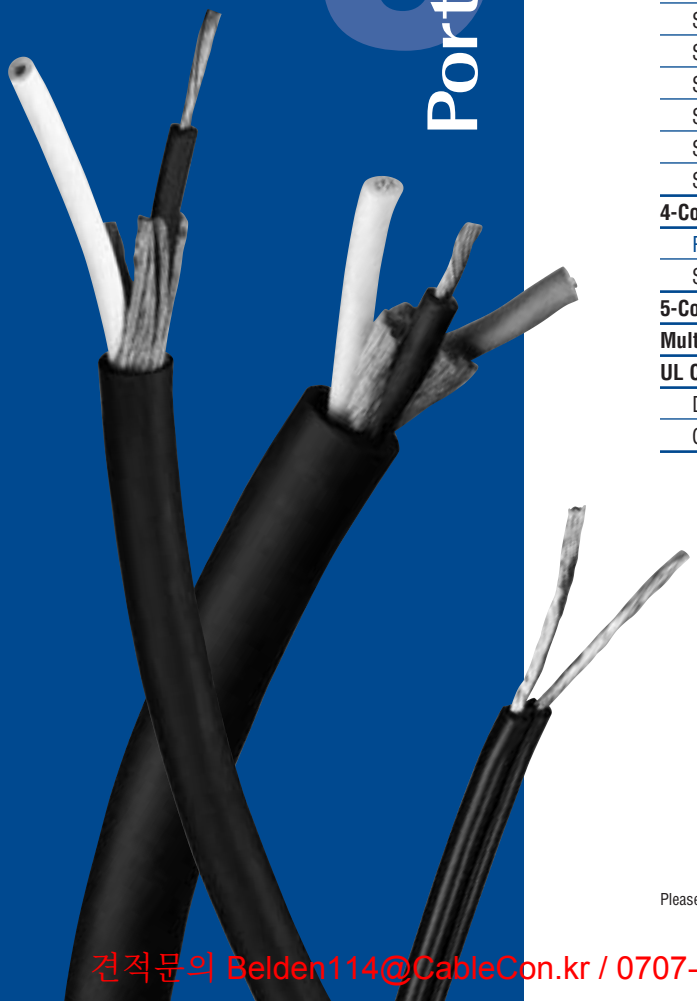


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Introduction

Belden® portable cordage products are available in a wide assortment of styles, lengths, and thicknesses. Products offered include 2-, 3-, 4- and 5-conductor as well as multi-conductor constructions. Jacket options include PVC, Rubber, Oil-Resistant Rubber and Belflex®. Belflex is a premium PVC jacket compound (Class 43) that is superior to standard PVC for flexibility and durability.

Belden portable cordage is listed by Underwriters Laboratories Inc. (UL). This approval signifies that Underwriters Laboratories Inc. has approved all elements of the cordage as meeting their applicable construction and performance standards. Where indicated, "Certified to CSA Standards" means that Belden portable cordage has been certified by CSA as meeting their Label Service or Re-examination Service requirements. Certification under the applicable CSA Standards has been made mandatory by most provincial or municipal authorities in Canada.

Most of our portable cordage constructions are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find portable cordage in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Color Code Comparison by Function

Color Coding		Function
International	North American Standards	
Light Blue	White	N-Neutral
Brown	Black	L-Live
Green/Yellow	Green or Green/Yellow	E-Earth or Ground

Manufacturer's Identification

Identification of the flexible cord is provided by our UL and CSA file numbers or printed name on the cord jacket.

UL/CSA File Numbers

UL: E-3462

CSA: LL-7874

Portable Cordage Packaging

Belden's unique UnReel® cable dispenser is available for many of the portable cordage products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

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2-Conductor

UL/CSA Types: SPT-1, SPT-2, SP-1 and HPN

Description	Part No.	Standard Lengths		Standard Unit Weight		Jacket Color	Conductor AWG (stranding)	Nom. Insulation Thickness		Nom. Jacket Thickness		Nominal OD	
		Ft.	m	Lbs.	kg			Inch	mm	Inch	mm	Inch	mm
SPT-1 PVC Parallel Lamp Cord • UL/CSA Listed													
300V, 60°C • One Conductor Polarity Ribbed													
	**19122**	250 †	76.2	5.8	2.6	Brown, White, Black, Silver-Gray	18 (42x34) BC	.032	.81	—	—	.110 x .207	2.79 x 5.26
		1000 ††	304.8	21.0	9.5								
	8888*	250	76.2	5.5	2.5	Brown	18 (42x34) BC	.032	.81	—	—	.110 x .207	2.79 x 5.26
		U-1000	U-304.8	21.0	9.5	Brown, Gray							
SPT-2 PVC Parallel Lamp Cord • UL/CSA Listed													
300V, 60°C • One Conductor Polarity Ribbed													
	**19123**	250 †	76.2	7.8	3.5	Brown, White, Black	18 (42x34) BC	.049	1.24	—	—	.144 x .277	3.66 x 7.04
	19126	250 †	76.2	9.8	4.4	Brown, Black	16 (65x34) BC	.048	1.22	—	—	.155 x .299	3.94 x 7.59
SP-1 Rubber Parallel Lamp Cord • UL Listed													
300V, 60°C • One Conductor Polarity Ribbed													
	**19115***	250 †	76.2	6.8	3.1	Brown, Black	18 (41x34) BC	.035	.89	—	—	.123 x .227	3.12 x 5.77
HPN CPE Heater Cord • UL/CSA Listed													
300V, 90°C													
	**19405**	250 †	76.2	7.8	3.5	Black	18 (41x34) BC	.047	1.18	—	—	.140 x .276	3.56 x 7.01
		1000 †	304.8	31.0	14.1								
	19404	250 †	76.2	9.8	4.4	Black	16 (105x36) BC	.047	1.18	—	—	.152 x .300	3.86 x 7.62
		1000 †	304.8	39.0	17.7								

BC = Bare Copper • CPE = Chlorinated Polyethylene

*Not CSA recognized.

†Put-ups may contain more than one piece. Minimum length of any one piece is 50 ft.
††Put-ups may contain more than one piece. Minimum length of any one piece is 100 ft.

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2-Conductor

UL/CSA Types: SJ, SJO, SJTOW, SO

Description	Part No.	Standard Lengths		Standard Unit Weight		Jacket Color	Conductor AWG (stranding)	Nom. Insulation Thickness		Nom. Jacket Thickness		Nominal OD	
		Ft.	m	Lbs.	kg			Inch	mm	Inch	mm	Inch	mm
SJ Rubber Jacket • Smooth Jacket • UL/CSA Listed													
300V, 60°C • Paper Tape Separator • Color Code: Black, White													
	**8478**	250	76.2	10.8	4.9	Black	18 (42x34) BC	.032	.81	.035	.89	.290	7.37
		1000	304.8	48.0	21.8								
	8472	250	76.2	12.8	5.8	Black	16 (65x34) BC	.033	.84	.035	.89	.315	8.00
SJO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed													
300V, 90°C • Paper Tape Separator • Color Code: Black, White													
	**19227**	250†	76.2	11.0	5.0	Black	18 (16x30) BC	.031	.79	.035	.89	.290	7.37
	19228	250†	76.2	13.5	6.1	Black	16 (26x30) BC	.031	.79	.035	.89	.315	8.00
SJTOW Belflex® Matte Black Premium PVC • Smooth Jacket • UL/CSA Listed													
300V, 105°C • Paper Tape Separator • International Color Code: Light Blue, Brown													
VW-1 	**19506***	250	76.2	11.0	5.0	Matte Black	18 (42x34) BC	.032	.81	.035	.89	.290	7.34
	19507*	250	76.2	13.5	6.1	Matte Black	16 (65x34) BC	.033	.84	.037	.94	.319	8.10
	19508*	250	76.2	17.0	7.7	Matte Black	14 (41x30) BC	.033	.84	.032	.81	.348	8.84
SO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed													
600V, 90°C • Cotton Serve Separator • Color Code: Black, White													
	**19204**	250†	76.2	18.5	8.4	Black	18 (42x34) BC	.032	.81	.065	1.65	.360	9.14
	19203	250†	76.2	19.0	8.6	Black	16 (65x34) BC	.033	.84	.065	1.65	.385	9.78
	19202	250†	76.2	37.3	16.9	Black	14 (41x30) BC	.048	1.22	.085	2.16	.523	13.28
600V, 90°C • Paper Tape Separator • Color Code: Black, White													
	**19201**	250†	76.2	52.8	24.0	Black	12 (65x30) BC	.051	1.30	.100	2.54	.610	15.49

BC = Bare Copper

*These constructions are approved as water-resistant, oil-resistant and for outdoor use.

†Put-ups may contain more than one piece. Minimum length of any one piece is 50 ft.

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2-Conductor

UL/CSA Types: STOW, SV, SVT

Description	Part No.	Standard Lengths		Standard Unit Weight		Jacket Color	Conductor AWG (stranding)	Nom. Insulation Thickness		Nom. Jacket Thickness		Nominal OD	
		Ft.	m	Lbs.	kg			Inch	mm	Inch	mm	Inch	mm
STOW Belflex® Matte Black Premium PVC • Smooth Jacket • UL/CSA Listed													
600V, 105°C • Paper Tape Separator • International Color Code: Light Blue, Brown													
VW-1 	**19500***	250	76.2	16.0	7.3	Matte Black	18 (42x34) BC	.032	.81	.070	1.78	.360	9.14
	19501*	250	76.2	18.8	8.5	Matte Black	16 (65x34) BC	.033	.84	.070	1.78	.386	9.80
	19502*	250	76.2	34.0	15.5	Matte Black	14 (41x30) BC	.049	1.24	.089	2.26	.524	13.31
SV Rubber Jacket • Serrated Jacket • UL/CSA Listed													
300V, 60°C • Cotton Serve Separator • Color Code: Black, White													
	**8452**	250	76.2	9.5	4.3	Black	18 (42x34) BC	.017	.43	.037	.94	.245	6.22
		U-500	U-152.4	18.5	8.4								
		500	152.4	17.0	7.7								
		U-1000	U-304.8	36.0	16.3								
		1000	304.8	38.0	17.3								
SV Rubber Jacket • Smooth Jacket • UL/CSA Listed													
300V, 60°C • Cotton Serve Separator • Color Code: Black, White													
	**19120**	250†	76.2	8.8	4.0	Black	18 (42x34) BC	.017	.43	.037	.94	.245	6.22
SVT PVC Jacket • Serrated Jacket • UL/CSA Listed													
300V, 60°C • Paper Tape Separator • Color Code: Black, White													
	**19140**	250†	76.2	8.8	4.0	Black, Gray	18 (42x34) BC	.018	.46	.036	.91	.243	6.17

BC = Bare Copper

*These constructions are approved as water-resistant, oil-resistant and for outdoor use.

†Put-ups may contain more than one piece. Minimum length of any one piece is 50 ft.

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3-Conductor

UL/CSA Types: S, SO, SJ

Description	Part No.	Standard Lengths		Standard Unit Weight		Jacket Color	Conductor AWG (stranding)	Nom. Insulation Thickness		Nom. Jacket Thickness		Nominal OD	
		Ft.	m	Lbs.	kg			Inch	mm	Inch	mm	Inch	mm
S Rubber Jacket • Smooth Jacket • UL/CSA Listed													
600V, 60°C • Cotton Serve Separator • Color Code: Black, White, Green													
	**19109**	250†	76.2	18.8	8.5	Black	18 (42x34) BC	.032	.81	.065	1.65	.380	9.65
	19108	250†	76.2	27.5	12.5	Black	16 (65x34) BC	.033	.84	.065	1.65	.405	10.29
600V, 60°C • Paper Tape Separator • Color Code: Black, White, Green													
	**19107**	250†	76.2	42.3	19.2	Black	14 (41x30) BC	.048	1.22	.085	2.16	.535	13.59
	19106	250†	76.2	61.8	28.1	Black	12 (65x30) BC	.051	1.30	.099	2.51	.640	16.26
	19105	250†	76.2	78.0	35.5	Black	10 (105x30) BC	.050	1.27	.099	2.51	.681	17.30
SO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed													
600V, 90°C • Cotton Serve Separator • Color Code: Black, White, Green													
	**19209**	250†	76.2	19.3	8.8	Black	18 (42x34) BC	.032	.81	.065	1.65	.380	9.65
	19208	250†	76.2	26.5	12.0	Black	16 (65x34) BC	.033	.84	.063	1.60	.400	10.16
600V, 90°C • Paper Tape Separator • Color Code: Black, White, Green													
	**19207**	250†	76.2	43.5	19.7	Black	14 (41x30) BC	.048	1.22	.086	2.18	.538	13.67
	19206	250†	76.2	62.8	28.5	Black	12 (65x30) BC	.051	1.30	.100	2.54	.632	16.05
	19205	250†	76.2	79.3	36.0	Black	10 (105x30) BC	.050	1.27	.099	2.51	.681	17.30
SJ Rubber Jacket • Smooth Jacket • UL/CSA Listed													
300V, 60°C • Paper Tape Separator • Color Code: Black, White, Green													
	**19129**	250†	76.2	13.8	6.3	Black	18 (16x30) BC	.031	.79	.039	.99	.315	8.00
	19125	250†	76.2	13.5	6.1	Black	18 (42x34) BC	.032	.81	.038	.97	.315	8.00
	19130	250†	76.2	17.5	7.9	Black	16 (26x30) BC	.031	.79	.038	.97	.340	8.64
	19124	250†	76.2	16.5	7.5	Black	16 (65x34) BC	.033	.84	.038	.97	.340	8.64
	8479	250	76.2	7.8	3.5	Black	14 (41x30) BC	.031	.79	.039	.99	.380	9.65

BC = Bare Copper

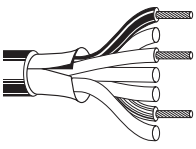
†Put-ups may contain more than one piece. Minimum length of any one piece is 50 ft.

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3-Conductor

UL/CSA Types: SJO, SJT

Description	Part No.	Standard Lengths		Standard Unit Weight		Jacket Color	Conductor AWG (stranding)	Nom. Insulation Thickness		Nom. Jacket Thickness		Nominal OD	
		Ft.	m	Lbs.	kg			Inch	mm	Inch	mm	Inch	mm
SJO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed													
300V, 90°C • Paper Tape Separator • Color Code: Black, White, Green													
	**19229**	250 †	76.2	14.3	6.5	Black	18 (16x30) BC	.031	.79	.039	.99	.315	8.00
	19230	250 †	76.2	17.8	8.1	Black	16 (26x30) BC	.031	.79	.038	.97	.340	8.64
SJT PVC Jacket • Serrated Jacket • UL/CSA Listed													
300V, 60°C • Paper Tape Separator • Color Code: Black, White, Green (18 AWG); Black, White, Green/Yellow (16 AWG)													
	**19348**	250 †	76.2	17.3	7.8	Gray, Black	18 (42x34) BC	.032	.81	.046	1.17	.328	8.33
	19349	250 †	76.2	18.3	8.3	Gray, Black	16 (65x34) BC	.033	.83	.038	.97	.340	8.64
SJT PVC Jacket • Smooth Jacket • UL/CSA Listed													
300V, 60°C • Paper Tape Separator • International Color Code: Light Blue, Brown, Green/Yellow													
	**19352**	250	76.2	17.5	8.0	Black	18 (42x34) BC	.032	.81	.046	1.17	.328	8.33
	19353	250	76.2	20.0	9.1	Black	16 (65x34) BC	.033	.84	.036	.91	.353	8.97
	19354	250	76.2	25.0	11.4	Black	14 (41x30) BC	.033	.84	.038	.97	.380	9.65
SJT PVC Jacket • Shielded • Smooth Jacket • 20 AWG Drain Wire (7x28) • UL/CSA Listed													
300V, 60°C Shielded • Beldfoil® Shield (100% Coverage) • International Color Code: Light Blue, Brown, Green/Yellow													
	**19362**	250	76.2	17.3	7.8	Black	18 (42x34) BC	.032	.81	.050	1.27	.340	8.64
		500	152.4	35.0	15.9								
	19363	250	76.2	21.3	9.7	Black	16 (65x34) BC	.033	.84	.047	1.19	.365	9.27
	19364	250	76.2	26.3	11.9	Black	14 (41x30) BC	.033	.84	.042	1.07	.402	10.21
SJT PVC Jacket • Low Leakage Power Cord • Smooth Jacket • UL Listed													
300V, 75°C • Paper Tape Separator • Color Code: Black, White, Green													
	**9998***	500 ††	152.4	55.5	25.2	Gray	16 (65x34) Bare Copper	.033	.84	.045	1.14	.475	12.07
		1000 ††	304.8	107.0	48.5	Lt. Blue							

BC = Bare Copper

*Not CSA recognized.
†Put-ups may contain more than one piece. Minimum length of any one piece is 50 ft.
††Put-ups may contain more than one piece. Minimum length of any one piece is 100 ft.

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3-Conductor

UL/CSA Types: SJTOW, STOW, SV, SVT

Description	Part No.	Standard Lengths		Standard Unit Weight		Jacket Color	Conductor AWG (stranding)	Nom. Insulation Thickness		Nom. Jacket Thickness		Nominal OD	
		Ft.	m	Lbs.	kg			Inch	mm	Inch	mm	Inch	mm
SJTOW Belflex® Premium PVC • Smooth Jacket • UL/CSA Listed													
300V, 105°C • Paper Tape Separator • International Color Code: Light Blue, Brown, Green/Yellow													
VW-1 	**19509***	250	76.2	14.0	6.4	Matte Black	18 (42x34) BC	.032	.81	.038	.97	.315	8.00
	19510*	250	76.2	17.5	7.9	Matte Black	16 (65x34) BC	.033	.84	.038	.97	.340	8.64
	19511*	250	76.2	23.8	10.8	Matte Black	14 (41x30) BC	.032	.81	.040	1.02	.380	9.65
STOW Belflex Premium PVC • Smooth Jacket • UL/CSA Listed													
600V, 105°C • Paper Tape Separator • International Color Code: Light Blue, Brown, Green/Yellow													
VW-1 	**19503***	250	76.2	19.0	8.6	Matte Black	18 (42x34) BC	.032	.81	.070	1.78	.380	9.65
	19504*	250	76.2	23.0	10.5	Matte Black	16 (65x34) BC	.033	.84	.070	1.78	.405	10.29
	19505*	250	76.2	42.5	19.3	Matte Black	14 (41x30) BC	.049	1.24	.089	2.26	.558	14.17
SV Rubber Jacket • Smooth Jacket • UL/CSA Listed													
300V, 60°C • Cotton Serve Separator • Color Code: Black, White, Green													
	**8453**	100	30.5	4.9	2.2	Black	18 (41x34) TC	.018	.46	.036	.91	.256	6.50
		500	152.4	21.0	9.5								
SVT PVC Jacket • Serrated Jacket • UL/CSA Listed													
300V, 60°C • Paper Tape Separator • Color Code: Black, White, Green													
	**19350**	250†	76.2	10.8	4.9	Gray	18 (42x34) BC	.018	.46	.038	.97	.253	6.43
SVT PVC Jacket • Smooth Jacket • UL/CSA Listed													
300V, 60°C • Paper Tape Separator • International Color Code: Light Blue, Brown, Green/Yellow													
	**19402**	250†	76.2	12.3	5.6	Black	18 (42x34) BC	.018	.46	.034	.86	.253	6.43

BC = Bare Copper

*These constructions are approved as water-resistant, oil-resistant and for outdoor use.

†Put-ups may contain more than one piece. Minimum length of any one piece is 50 ft.

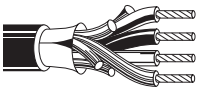
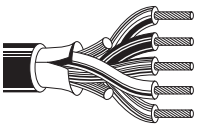
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3-, 4- and 5-Conductor

UL/CSA Type: SVT, SO

UL AWM Styles: 4097 and 4256

Description	Part No.	Standard Lengths		Standard Unit Weight		Jacket Color	Conductor AWG (stranding)	Nom. Insulation Thickness		Nom. Jacket Thickness		Nominal OD	
		Ft.	m	Lbs.	kg			Inch	mm	Inch	mm	Inch	mm
3-Conductor SVT PVC Jacket • Shielded • Smooth Jacket • 22 AWG Drain Wire (7x30) • UL/CSA Listed													
300V, 60°C Shielded • Beldfoil® Shield (100% Coverage) • International Color Code: Light Blue, Brown, Green/Yellow													
	**19401**	250 †	76.2	12.3	5.6	Black	18 (42x34) BC	.018	.46	.043	1.09	.270	6.86
		1000 ††	304.8	49.0	22.3								
300V, 60°C Shielded • Duofoil® Shield (100% Coverage) • Braid (88% Coverage) • Internat'l Color Code: Light Blue, Brown, Green/Yellow													
	**19403**	250 †	76.2	17.8	8.1	Black	18 (42x34) BC	.018	.46	.038	.97	.307	7.80
4-Conductor Rubber Jacket • Smooth Jacket • Style 4097													
300V, 60°C • Paper Tape Separator • Color Code: Black, White, Brown, Red													
	**8454***	100	30.5	5.8	2.6	Black	18 (41x34) TC	.018	.46	.036	.91	.265	6.73
		U-500	U-152.4	27.0	12.3								
		500	152.4	25.0	11.3								
		U-1000	U-304.8	52.0	23.6								
		1000	304.8	54.0	24.5								
4-Conductor SO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed													
600V, 90°C • Paper Tape Separator • Color Code: Black, White, Green, Red													
	**19217**	50	15.2	10.1	4.6	Black	14 (41x30) BC	.048	1.22	.087	2.21	.603	15.32
		200	60.9	43.6	19.8								
	19216	50	15.2	17.2	7.8	Black	12 (65x30) BC	.051	1.30	.102	2.59	.690	17.53
		200	60.9	61.8	28.1								
5-Conductor Rubber Jacket • Smooth Jacket • Style 4256													
300V, 60°C • Paper Tape Separator • Color Code: Brown, Green, White, Black, Red													
	**8455***	250	76.2	12.0	5.4	Black	3–20 (26x34) TC	.018	.46	.031	.79	.280	7.11
		U-500	U-152.4	25.5	11.6								
		U-1000	U-304.8	50.0	22.7								
							2–18 (41x34) TC						

BC = Bare Copper • TC = Tinned Copper

*Not CSA recognized.

†Put-ups may contain more than one piece. Minimum length of any one piece is 50 ft.

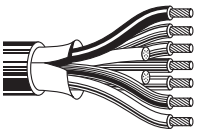
††1000 ft. put-up one piece exact.

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Multi-Conductor

Power and Control Cables

Description	Part No.	No. of Cond.	Standard Lengths		Standard Unit Weight		Jacket Color	Conductor AWG (stranding)	Nom. Insulation Thickness		Nom. Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg			Inch	mm	Inch	mm	Inch	mm
SO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed														
600V, 60°C • Conductors Cabled with Fillers • Paper Tape Separator • Color Code: See Chart 2 (Tech Info Section)														
	**9420**	5	100	30.5	13.3	6.0	Black	16 (65x34) BC	.033	.84	.084	2.13	.506	12.85
			500	152.4	73.5	33.4								
			1000	304.8	143.0	65.0								
	9422	7	100	30.5	18.5	8.4	Black	16 (65x34) BC	.033	.84	.083	2.11	.581	14.76
			500	152.4	101.0	45.9								
			1000	304.8	201.0	91.4								
	9424	9	100	30.5	29.6	13.4	Black	16 (65x34) BC	.033	.84	.100	2.54	.720*	18.29
			500	152.4	150.5	68.4								
			1000	304.8	288.0	130.9								
	9425	12	100	30.5	32.6	14.8	Black	16 (65x34) BC	.033	.84	.100	2.54	.720	18.29
			500	152.4	165.5	75.2								
			1000	304.8	318.0	144.5								
	9427	16	100	30.5	39.5	17.9	Black	16 (65x34) BC	.033	.84	.100	2.54	.787	19.99
			1000	304.8	428.0	194.5								
	9429	20	100	30.5	48.4	22.0	Black	16 (65x34) BC	.033	.84	.100	2.54	.862	21.89
			500	152.4	233.0	105.9								

BC = Bare Copper • CPE = Chlorinated Polyethylene
*Fillers added in the center.

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UL Cordage Type
Designation

UL Cord Type	Description
HPN	Heater Parallel Neoprene
HSJ	Heater Service Junior
HSJO	HSJ with Oil-Resistant Jacket
S	Service
SE	Service Elastomer
SEO	SE with Oil-Resistant Jacket
SEOO	SEO with Oil-Resistant Insulation
SJ	Service Junior
SJE	Service Junior Elastomer
SJEO	SJE with Oil-Resistant Jacket
SJEOO	SJEO with Oil-Resistant Insulation
SJO	SJ with Oil-Resistant Jacket
SJOO	SJO with Oil-Resistant Insulation
SJT	Service Junior Thermoplastic
SJTO	SJT with Oil-Resistant Jacket
SJTOO	SJTO with Oil-Resistant Insulation
SO	Service with Oil-Resistant Jacket
SOO	SO with Oil-Resistant Insulation
SP-1	Service Parallel — 1/32″ Insulation
SP-2	Service Parallel — 3/64″ Insulation
SP-3	Service Parallel — 1/16″ Insulation
SPE-1	Service Parallel Elastomer — 1/32″ Insulation
SPE-2	Service Parallel Elastomer — 3/64″ Insulation
SPE-3	Service Parallel Elastomer — 1/16″ Insulation
SPT-1	Service Parallel Thermoplastic — 1/32″ Insulation
SPT-2	Service Parallel Thermoplastic — 3/64″ Insulation
SPT-3	Service Parallel Thermoplastic — 1/16″ Insulation
ST	Service Thermoplastic
STO	ST with Oil-Resistant Jacket
STOO	STO with Oil-Resistant Insulation
SV	Service Vacuum
SVE	Service Vacuum Elastomer
SVEO	SVE with Oil-Resistant Jacket
SVEOO	SVEO with Oil-Resistant Insulation
SVO	SV with Oil-Resistant Jacket
SVOO	SVO with Oil-Resistant Insulation
SVT	Service Vacuum Thermoplastic
SVTO	SVT with Oil-Resistant Jacket
SVTOO	SVTO with Oil-Resistant Insulation
TPT	Tinsel Parallel Thermoplastic
TST	Tinsel Service Thermoplastic
XTW	Decorative Lighting Thermoplastic Parallel

NOTE: Service parallel types—wall thickness for integral construction.

Elastomer is a thermoplastic material with elastomeric properties similar to rubber.

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UL Cordage Type
Construction and Rating

Cord Type*	AWG Size Range	No. of Cond.	Conductor Insulation Material and Min. Average Thickness (inches)	Jacket Material and Min. Average Thickness** (inches)	Temperature Rating (°C)†		Voltage Rating
					Standard	Other	
HPN	18 – 12	2 or 3††	.045 Rubber		90	105	300
HSJ	18 – 12	2, 3, 4	.030 Rubber††	.030 Rubber	90		300
HSJO	18 – 12	2, 3, 4	.030 Rubber▲	.030 Oil-Resistant Rubber	90		300
S	18 – 2	2 or more	.030 Rubber▲	.060 Rubber▲	60	75, 90	600
SE	18 – 2	2 or more	.030 Elastomer	.060 Elastomer	105		600
SEO	18 – 2	2 or more	.030 Elastomer	.060 Elastomer	105		600
SJ	18 – 10	2, 3, 4, 5	.030 Rubber◆	.030 Rubber	60	75, 90	300
SJE	18 – 10	2, 3, 4, 5	.030 Elastomer††	.030 Elastomer	105		300
SJEO	18 – 10	2, 3, 4, 5	.030 Elastomer	.030 Elastomer	105		300
SJO	18 – 10	2, 3, 4, 5	.030 Rubber◆	.030 Oil-Resistant Rubber	60	75, 90, 105	300
SJT	18 – 10	2, 3, 4, 5	.030 Plastic◆	.030 Plastic	60	75, 90, 105	300
SJTO	18 – 10	2, 3, 4, 5	.030 Plastic◆	.030 Plastic	60	75, 90, 105	300
SO	18 – 2	2 or more	.030 Rubber▲	.060 Oil-Resistant Rubber▲	60	75, 90	600
SP-1	18	2 or 3††	.030 Rubber		60		300
SP-2	18 – 16	2 or 3††	.045 Rubber		60		300
SP-3	18 – 12	2 or 3††	.060 Rubber▲		60		300
SPT-1	18	2 or 3††	.030 Plastic		60	75, 90, 105	300
SPT-2	18 – 16	2 or 3††	.045 Plastic		60	75, 90, 105	300
SPT-3	18 – 10	2 or 3††	.060 Plastic▲		60	75, 90, 105	300
ST	18 – 2	2 or more	.030 Plastic▲	.060 Plastic▲	60	75, 90, 105	600
STO	18 – 2	2 or more	.030 Plastic▲	.060 Plastic▲	60	75, 90, 105	600
SV	18	2 or 3††	.015 Rubber	.030 Rubber	60	75, 90	300
SVE	18 – 17	2 or 3††	.015 Elastomer	.030 Elastomer	105		300
SVEO	18 – 17	2 or 3††	.015 Elastomer	.030 Elastomer	105		300
SVO	18	2 or 3††	.015 Rubber	.030 Oil-Resistant Rubber	60	75, 90	300
SVT	18 – 17	2 or 3††	.015 Plastic	.030 Plastic	60	75, 90, 105	300
SVTO	18 – 17	2 or 3††	.015 Plastic	.030 Plastic	60	75, 90, 105	300
TPT	27 (Tinsel)	2	.030 Plastic		60		300
TST	27 (Tinsel)	2	.015 Plastic	.030 Rubber	60		300

* Types SVO, SVTO, SJO, SJTO, SO, STO and HSJO have jackets which are also recognized for oil resistance at maximum temperature of 60°C.
Types SJ, SJO, SJT, SJTO, S, SO, ST and STO may also be made for outdoor use and will be indicated by adding a "W" suffix to the cord type.
Similarly, types SJ, SJTO, SJO, SJT, S, SO, ST and STO may also be made in water-resistant grades with "Water-Resistant" printed on the jacket.
3-wire SJT may be made in special low-leakage constructions for medical equipment cords.

** Where no jacket is shown, the construction is integral or flat style with insulation also serving as jacket.

† For cordage ratings higher than 60°C, the temperature limit is printed on the outside of the jacket. This does not apply to heater cordage type HPN, rated 90°C, or 105°C.

†† Recognized in three conductors when third or center conductor (with Green or Green/Yellow stripe) is used for equipment grounding.

▲ Insulation and jacket thickness depend on cordage size. Thickness as shown are for 18 and 16 AWG.

◆ Insulation and jacket thickness depend on cordage size.
No. 12 AWG requires .030" conductor insulation thickness and .045" jacket thickness.
No. 10 AWG requires .045" conductor insulation thickness and .060" jacket thickness.

The term Elastomer refers to thermoplastic elastomer.

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BELDEN
SENDING ALL THE RIGHT SIGNALS



10 Optical Fiber



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Please refer to “Terms of Use of Master Catalog” on page 22.22

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Cable Selection Guide

Introduction

The Belden line of Optical Fiber Cables represents a new selection of the best optical fiber cable products offered by the consolidated resources of the Belden organization. The unmatched resources of Belden have now generated a complete line of indoor and outdoor cable products in tight buffered and loose tube constructions. This offering now expands the available applications for Belden optical fiber cable.

Customer Service

Most of our optical fiber cables are available from stock. Many of these are available off-the-shelf from distributors. If you have a new or unusual application, or you cannot find a optical fiber cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1 for additional information.

Cable Selection Guide

Optical Fiber

Fiber Selection Chart

Type	Grade	Fiber Size (µ)	Standards Compliance	Link Length (m)	Data Rate (Gb)
Multimode	6	50/125	exceeds TIA/EIA-568-B.3-1 ISO 11801 OM3	500	10
	5	50/125	TIA/EIA-568-B.3-1 ISO 11801 OM3	300	10
	4	50/125	TIA/EIA-568-B.3	600	1
	3	62.5/125	TIA/EIA-568-B.3	1,000	1
	2	62.5/125	TIA/EIA-568-B.3	550	1
	1▲	62.5/125	FDDI grade†	—	—
Single-mode	—	—	ITU G.652.c/d††	—	—

▲ Grade 1 fibers are available upon request.

† Used in most current cable plants, but not recommended for future installations, except as patch cordage

†† Low water peak fiber with advantages for CWDM applications

Color Code Charts

Jacket Color Chart

Cable Type	Jacket Color
Loose Tube & Outside Plant Cables	Black
Industrial Tray Cables	Orange
Tight Buffered Cables	
Grades 2,3,4	Orange
Grades 5,6	Aqua
Single-mode	Yellow

Nonstandard jacket colors are available upon request.

Fiber Sub-unit Color Code Chart*

Fiber/Tube No.	Color	Fiber/Tube No.	Color
1	Blue	7	Red
2	Orange	8	Black
3	Green	9	Yellow
4	Brown	10	Violet
5	Slate	11	Rose
6	White	12	Aqua

*Per EIA/TIA 598-A

Optical Specifications

Grade:	2	3	4	5	6	Single-mode Enhanced[6]
Glass Type:	62.5/125µ	62.5/125µ	50/125µ	50/125µ	50/125µ	
Operating Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1550
Min. OFL[1] Bandwidth (MHz-km)	200/500	200/500	500/500	1500/500	3000/500	—
Min. Laser[2] Bandwidth (MHz-km)	220/500	385/500	510/500	2000/500	4000/500	—
Max. Attenuation Loose Tube (dB/km)	3.25/1.0	3.25/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.40/0.30
Max. Attenuation Tight Buffered[3] (dB/km)	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	0.80/0.50
100 Mb Fast Ethernet Min. Link Length (meters S/L[4])	300/2000	300/2000	300/2000	300/2000	300/2000	—/5000
1 Gb Ethernet Min. Link Length (meters S/L[4])	300/550	500/1000	600/600	1000[5]/600	1000[5]/600	—/5000
10 Gb Ethernet Min. Link Length (meters S/L[4])	35/300	35/300	85/300	300/300	500/300	—/10,000

[1] OFL = Overfilled Launch

[2] Effective Modal Bandwidth, determined by RML or DMD performance specifications

[3] Max. Attenuation for Tight Buffered, Ribbon, Micro-Loose Tube and Loose Tube Plenum Cables

[4] S/L = Short wavelength (850 nm) / Long wavelength (1310 nm)

[5] >2000 meters for engineered links

[6] Low water peak Single-Mode suitable for CWDM use complies with ITU G.652.c/d

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Interconnect Cable — Simplex and Duplex

Tight Buffer — Riser & Plenum Rated

Applications

- Patch panels
- Workstation equipment connections
- Horizontal distribution in open office environments

Product Description

Interconnect Cables are designed for low fiber-count premises environments. They are small and very flexible, making them ideal for confined spaces. Their aesthetic appearance makes these cables suitable for use in open office environments. Available in 1 or 2 fibers. One sub-unit is marked to permit easy identification of transmit and receive fibers. Length markings to facilitate installation.

Jacket Material	PVC
Tight Buffer	PVC
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

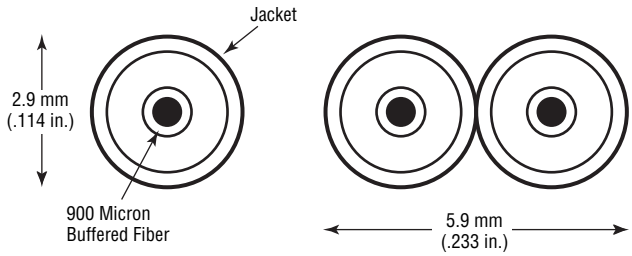
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	200 N/cm
Impact Resistance (EIA-455-25)	20 Impacts @ 1.0 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Interconnect Cable Series										
Riser (NEC/CEC OFNR/OFN FT4)										
1	**M97112**	**M9A001**	**M9C001**	**M9W001**	0.114	2.9	6	9	90	400
2	**M96915**	**M9A002**	**M9C002**	**M9W002**	0.11 x 0.23	2.9 x 5.9	12	18	180	801
Plenum (NEC/CEC OFNP/OFN FT6)										
1	**M98086**	**M9A003**	**M9C003**	**M9W003**	0.114	2.9	6	9	90	400
2	**M96919**	**M9A004**	**M9C004**	**M9W004**	0.11 x 0.23	2.9 x 5.9	13	19	180	801

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

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Distribution Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated

Applications

- Low to high fiber count requirements
- In-building backbone
- Fiber-to-the-desk applications
- Computer room

Product Description

Flexible thermoplastic jacket provides excellent handling characteristics. Fibers and cable sub-units are color coded for easy identification. Length markings in meters for easy determination of cable length. Full dielectric construction, no grounding required. For Riser offering, MSHA approved cables are available.

Jacket Material	
Riser & Non-unitized Plenum	PVC
Unitized Plenum	PVDF
Low Smoke Zero Halogen	LSZH
Tight Buffer	
Riser & Plenum	PVC
Low Smoke Zero Halogen	LSZH
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange (Green for LSZH only)
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

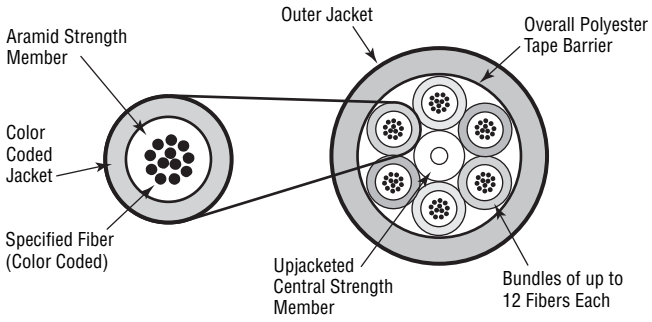
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262
Low Smoke Zero Halogen	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



2 – 12 FIBERS **>12 – 144 FIBERS**

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Distribution Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated *(continued)*

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Distribution Cable Series										
Riser (NEC/CEC OFNR/OFN FT4)										
2	M9B037	M9A037	M9C037	M9W037	0.184	4.67	13	19	180	801
4	M9B038	M9A038	M9C038	M9W038	0.200	5.08	16	24	195	867
6	M9B039	M9A039	M9C039	M9W039	0.220	5.59	19	28	270	1201
8	M9B040	M9A040	M9C040	M9W040	0.235	5.97	22	33	270	1201
12	M9B042	M9A042	M9C042	M9W042	0.255	6.48	27	40	300	1334
24	M9B601*	M9A601*	M9C601*	M9W601*	0.325	8.26	42	63	390	1735
24	M9B602	M9A602	M9C602	M9W602	0.496	12.60	83	124	960	4270
36	M9B604	M9A604	M9C604	M9W604	0.644	16.36	137	204	1440	6405
48	M9B606	M9A606	M9C606	M9W606	0.627	15.93	131	195	945	4203
72	M9B609	M9A609	M9C609	M9W609	0.750	19.10	195	290	1350	6005
96	M9B622	M9A622	M9C622	M9W622	0.895	22.70	290	432	1983	8820
144	M9B619	M9A619	M9C619	M9W619	0.964	24.49	314	467	2745	12210
Composite Riser Cables										
6xSM/12x62.5	M96992									
12xSM/12x62.5	M96963									
6xSM/12x50	M96909									
12xSM/12x50	M96908									
Plenum (NEC/CEC OFNP/OFN FT6)										
2	M9B043	M9A043	M9C043	M9W043	0.184	4.67	14	21	180	801
4	M9B044	M9A044	M9C044	M9W044	0.174	4.42	13	19	195	867
6	M9B045	M9A045	M9C045	M9W045	0.190	4.83	16	24	270	1201
8	M9B046	M9A046	M9C046	M9W046	0.222	5.64	19	28	270	1201
12	M9B048	M9A048	M9C048	M9W048	0.225	5.72	22	33	300	1334
24	M9B611*	M9A611*	M9C611*	M9W611*	0.330	8.38	40	60	390	1735
24	M9B612	M9A612	M9C612	M9W612	0.493	12.52	89	132	1263	5618
36	M9B614	M9A614	M9C614	M9W614	0.594	15.09	134	199	1913	8509
48	M9B616	M9A616	M9C616	M9W616	0.599	15.21	131	195	1245	5538
72	M9B620	M9A620	M9C620	M9W620	0.754	19.15	197	293	2093	9310
96	M9B623	M9A623	M9C623	M9W623	0.904	22.96	268	399	2160	9608
144	M9B621	M9A621	M9C621	M9W621	1.047	26.59	365	543	3645	16213
Composite Plenum Cables										
6xSM/6x62.5	M97174									
6xSM/12x62.5	M97041									
12xSM/12x62.5	M97219									
6xSM/6x50	M97412									
6xSM/12x50	M97411									
12xSM/12x50	M96780									
LSZH (NEC/CEC OFNR/OFN FT4)										
2	M9B100	M9A100	M9C100	M9W100	0.184	4.70	15	22	180	800
4	M9B101	M9A101	M9C101	M9W101	0.200	5.10	17	25	195	867
6	M9B102	M9A102	M9C102	M9W102	0.220	5.60	21	31	270	1201
8	M9B103	M9A103	M9C103	M9W103	0.235	6.00	24	36	270	1201
12	M9B104	M9A104	M9C104	M9W104	0.255	6.50	29	43	300	1334
16	M9B105	M9A105	M9C105	M9W105	0.347	8.80	43	63	315	1400
24	M9B107	M9A107	M9C107	M9W107	0.386	9.80	54	79	450	2000
36	M9B111	M9A111	M9C111	M9W111	0.798	20.00	214	313	1619	7200
48	M9B112	M9A112	M9C112	M9W112	0.835	21.20	237	347	1619	7200
72	M9B114	M9A114	M9C114	M9W114	0.883	22.40	270	395	1619	7200
96	M9B116	M9A116	M9C116	M9W116	0.973	24.70	364	532	1619	7200
144	M9B120	M9A120	M9C120	M9W120	1.087	27.60	384	561	1619	7200

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.
Construction for LSZH cables differs from the drawing. Alternative fiber counts are available.

*Single jacket design.

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Breakout Style Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated

Applications

- Low to medium fiber count requirements
- In-building backbone or horizontal deployment
- Office wiring
- Factory floor automation and harsh environment installations

Product Description

Full dielectric construction, no grounding required. Available with 2 to 36 fibers. Fiber subunits are color coded for easy identification. Length markings in meters for easy determination of cable length. For Riser offering, MSHA approved cables are available.

Outer Jacket Material	
Riser & Plenum	PVC
Plenum	PVDF
Low Smoke Zero Halogen	LSZH
Sub-unit Jacket Material	
Riser & Plenum	PVC
Low Smoke Zero Halogen	LSZH
Tight Buffer	
Riser & Plenum	PVC
Low Smoke Zero Halogen	LSZH
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange (Green for LSZH only)
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

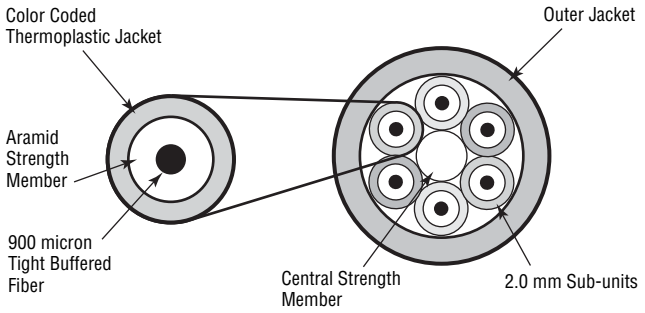
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262
Low Smoke Zero Halogen	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



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Breakout Style Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated *(continued)*

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Breakout Cable Series										
Riser (NEC/CEC OFNR/OFN FT4)										
2	**M9B005**	**M9A005**	**M9C005**	**M9W005**	0.260	6.60	24	36	180	801
4	**M9B006**	**M9A006**	**M9C006**	**M9W006**	0.321	8.15	35	52	345	1535
6	**M9B007**	**M9A007**	**M9C007**	**M9W007**	0.358	9.09	54	80	543	2415
8	**M9B008**	**M9A008**	**M9C008**	**M9W008**	0.405	10.29	69	103	600	2700
10	**M9B009**	**M9A009**	**M9C009**	**M9W009**	0.455	11.56	86	128	600	2700
12	**M9B010**	**M9A010**	**M9C010**	**M9W010**	0.514	13.06	110	164	600	2700
18	**M9B011**	**M9A011**	**M9C011**	**M9W011**	0.520	13.21	104	155	600	2700
24	**M9B012**	**M9A012**	**M9C012**	**M9W012**	0.590	14.99	135	201	600	2700
36	**M9B083**	**M9A083**	**M9C083**	**M9W083**	0.680	17.27	168	250	600	2700
Plenum (NEC/CEC OFNP/OFN FT6)										
2	**M9B013**	**M9A013**	**M9C013**	**M9W013**	0.230	5.84	20	30	180	801
4	**M9B014**	**M9A014**	**M9C014**	**M9W014**	0.263	6.68	30	45	345	1535
6	**M9B015**	**M9A015**	**M9C015**	**M9W015**	0.309	7.85	41	61	465	2068
8	**M9B016**	**M9A016**	**M9C016**	**M9W016**	0.336	8.53	55	82	600	2700
10	**M9B017**	**M9A017**	**M9C017**	**M9W017**	0.385	9.78	73	109	600	2700
12	**M9B018**	**M9A018**	**M9C018**	**M9W018**	0.391	9.93	65	97	600	2700
18	**M9B019**	**M9A019**	**M9C019**	**M9W019**	0.456	11.58	89	132	600	2700
24	**M9B020**	**M9A020**	**M9C020**	**M9W020**	0.544	13.82	117	174	600	2700
36	**M9B082**	**M9A082**	**M9C082**	**M9W082**	0.612	15.54	154	229	600	2700
LSZH (NEC/CEC OFNR/OFN FT4)										
2	**M9B130**	**M9A130**	**M9C130**	**M9W130**	0.290	7.37	39	57	270	1200
4	**M9B131**	**M9A131**	**M9C131**	**M9W131**	0.351	8.92	38	55	285	1268
6	**M9B132**	**M9A132**	**M9C132**	**M9W132**	0.358	9.09	52	76	543	2415
8	**M9B133**	**M9A133**	**M9C133**	**M9W133**	0.405	10.29	67	98	600	2700
10	**M9B134**	**M9A134**	**M9C134**	**M9W134**	0.455	11.56	110	162	600	2700
12	**M9B135**	**M9A135**	**M9C135**	**M9W135**	0.514	13.06	110	161	600	2700
18	**M9B136**	**M9A136**	**M9C136**	**M9W136**	0.520	13.21	103	151	600	2700
24	**M9B137**	**M9A137**	**M9C137**	**M9W137**	0.590	14.99	138	202	600	2700
36	**M9B138**	**M9A138**	**M9C138**	**M9W138**	0.680	17.27	171	250	600	2700

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.
2.5 mm Breakout Cables are also available.

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Industrial Armored Cable

Tight Buffer — Riser & Plenum Rated

Applications

- Industrial environments
- Rugged installations
- Manufacturing plants
- Mining operations
- Telecommunications and data trunk
- Inter- and intra-building installations

Product Description

Heavy duty construction with interlocking aluminum armor (steel available on request) provides excellent mechanical protection from cutting or crushing and eliminates need for innerduct. Rodent resistant. Also available for outside plant. Loose tube design available on request.

Jacket Material	
Riser & Plenum	PVC
Buffer Tube	PVC
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Armor	Aluminum
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

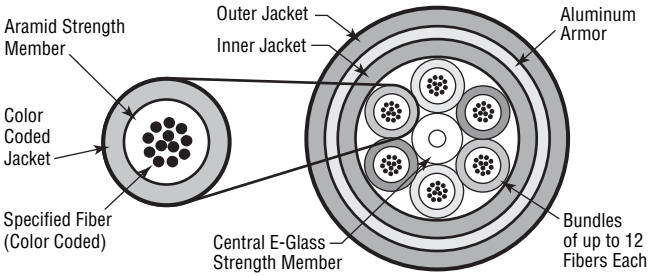
Ratings

Riser	
UL Type	OFCR
cUL Type	OFC FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFCP
cUL Type	OFC FT6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 3.0 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Industrial Armored Series										
Riser (NEC/CEC OFCR/OFC FT4)										
6	**M9B230**	**M9A230**	**M9C230**	**M9W230**	0.570	14.50	126	188	270	1201
12	**M9B231**	**M9A231**	**M9C231**	**M9W231**	0.620	15.70	149	222	300	1334
24	**M9B232***	**M9A232***	**M9C232***	**M9W232***	0.670	17.00	179	266	390	1735
24	**M9B233**	**M9A233**	**M9C233**	**M9W233**	0.845	21.46	263	391	600	2700
36	**M9B234**	**M9A234**	**M9C234**	**M9W234**	0.970	24.64	368	548	600	2700
48	**M9B235**	**M9A235**	**M9C235**	**M9W235**	0.970	24.64	368	548	600	2700
72	**M9B236**	**M9A236**	**M9C236**	**M9W236**	1.095	27.82	481	716	600	2700
96	**M9B237**	**M9A237**	**M9C237**	**M9W237**	1.245	31.62	625	930	600	2700
144	**M9B238**	**M9A238**	**M9C238**	**M9W238**	1.320	33.55	675	1005	600	2700
Plenum (NEC/CEC OFCP/OFC FT6)										
6	**M9B240**	**M9A240**	**M9C240**	**M9W240**	0.471	12.00	87	129	270	1201
12	**M9B241**	**M9A241**	**M9C241**	**M9W241**	0.506	12.90	103	153	300	1334
24	**M9B242***	**M9A242***	**M9C242***	**M9W242***	0.631	16.00	151	225	390	1735
24	**M9B243**	**M9A243**	**M9C243**	**M9W243**	0.781	19.84	289	430	600	2700
36	**M9B244**	**M9A244**	**M9C244**	**M9W244**	0.881	22.38	309	460	600	2700
48	**M9B245**	**M9A245**	**M9C245**	**M9W245**	0.906	23.01	320	476	600	2700
72	**M9B246**	**M9A246**	**M9C246**	**M9W246**	1.056	26.82	451	671	600	2700
96	**M9B247**	**M9A247**	**M9C247**	**M9W247**	1.256	31.90	608	905	600	2700
144	**M9B248**	**M9A248**	**M9C248**	**M9W248**	1.331	33.81	687	1022	600	2700

Additional optical fiber cable constructions are available upon request. All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.
*Single jacket design.

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Tactical Cable

Tight Buffer — Outdoor

Applications

- ENG vehicles
- Outdoor news, sporting or other events
- Digital camera transmission
- Military communications
- Re-deployable communications

Product Description

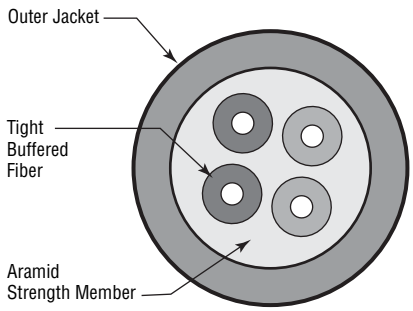
Small and lightweight with a rugged jacket, Tactical Cable provides a durable design for repeated deployment and retrieval cycles and a superior level of crush resistance. Designed to military standards. 50/125 micron fiber available on request.

Jacket Material	UV-resistant PU
Buffer	Polyester
Strength Member	Aramid Yarn
Color Code (Jacket & Fibers)	Per EIA/TIA 598-A, see page 10.2

Specifications

Temperature Range	
Storage	-70 to +85°C
Operating	-55 to +85°C
Crush Resistance (EIA-455-41)	440 N/cm
Impact Resistance (EIA-455-25)	200 Impacts @ 2.2 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	8 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Belden Part Number		Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Tactical Series								
Outdoor								
2	**M96571**	**M96566**	0.217	5.5	19	28	330	1468
4	**M96551**	**M96639**	0.225	5.7	21	31	330	1468
6	**M96572**	**M96567**	0.236	6.0	23	34	330	1468
8	**M96573**	**M96568**	0.250	6.3	26	39	330	1468
10	**M96574**	**M96569**	0.265	6.7	28	42	330	1468
12	**M96575**	**M96570**	0.280	7.1	31	46	330	1468

Please contact the Technical Support Group for proper connectivity integration and installation guidance.
All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

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Ribbon Cable

Riser and Plenum Rated

Applications

- Inter-equipment connections
- NEBS applications

Product Description

Small size is ideal for connections in tight spaces. Color coded fibers. Suitable for use with standard ribbon connectors. Flexible, with half-inch minimum bend radius. Tight center-to-center tolerances. Optional identification printing available.

Jacket Material	PVC
Strength Member	Aramid Yarn
Color Code (Jacket & Fibers)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125µm	Orange
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

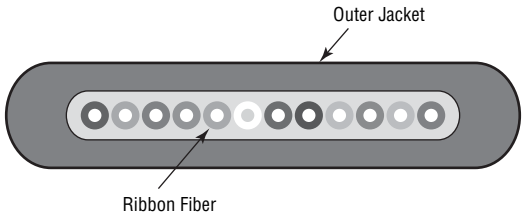
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Ribbon Series										
Riser (NEC/CEC OFNR/OFN FT4)										
2	**M9B630**	**M9A630**	**M9C630**	**M9W630**	0.114	2.9	5	7	100	444
4	**M9B631**	**M9A631**	**M9C631**	**M9W631**	0.78 x 0.115	2.0 x 2.9	4	6	100	444
6	**M9B632**	**M9A632**	**M9C632**	**M9W632**	0.78 x 0.137	2.0 x 3.5	6	9	100	444
8	**M9B633**	**M9A633**	**M9C633**	**M9W633**	0.78 x 0.158	2.0 x 4.0	6	9	100	444
12	**M9B634**	**M9A634**	**M9C634**	**M9W634**	0.78 x 0.180	2.0 x 4.6	7	10	100	444
Plenum (NEC/CEC OFNP/OFN FT6)										
2	**M9B640**	**M9A640**	**M9C640**	**M9W640**	0.114	2.9	5	7	100	444
4	**M9B641**	**M9A641**	**M9C641**	**M9W641**	0.78 x 0.115	2.0 x 2.9	4	6	100	444
6	**M9B642**	**M9A642**	**M9C642**	**M9W642**	0.78 x 0.137	2.0 x 3.5	6	9	100	444
8	**M9B643**	**M9A643**	**M9C643**	**M9W643**	0.78 x 0.158	2.0 x 4.0	6	9	100	444
12	**M9B644**	**M9A644**	**M9C644**	**M9W644**	0.78 x 0.180	2.0 x 4.6	7	10	100	444

Fiber Ribbon Cable is to be sold as bulk cable and has not been qualified for field connectorization.
All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

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Single Jacket, All Dielectric Cable

Loose Tube — Outdoor, and Indoor/Outdoor Riser Rated

Applications

- Medium to high fiber count requirements
- Inter-building duct installations
- Lashed aerial
- Indoor/outdoor
- Industrial outside plant

Product Description

Gel-filled buffer tube prevents water migration. All-dielectric strength member. Available as Riser rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Full dielectric construction, no grounding required. Available with up to 216 fibers. Length markings in meters for easy determination of cable length.

Jacket Material	
Outdoor	PE
Riser	PVC
Buffer Tube	PBT
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

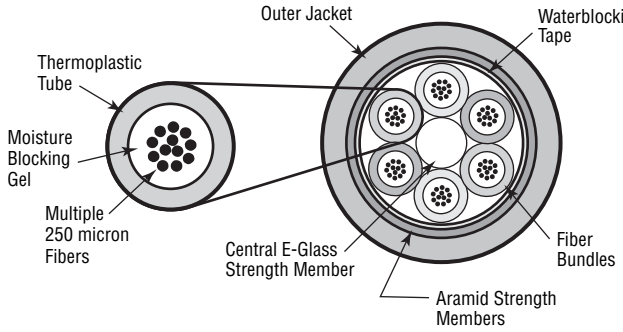
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666

Specifications

Temperature Range (Outdoor Series)	
Storage	-50 to +80°C
Operating	-40 to +70°C
Temperature Range (Riser Series)	
Storage	-40 to +80°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Loose Tube Series											
Outdoor											
6	6	**M9B510T**	**M9A510T**	**M9C510T**	**M9W510T**	0.38	9.65	44	65	600	2700
12	6	**M9B511T**	**M9A511T**	**M9C511T**	**M9W511T**	0.38	9.65	44	65	600	2700
24	6	**M9B500T**	**M9A500T**	**M9C500T**	**M9W500T**	0.38	9.65	45	67	600	2700
36	6	**M9B502T**	**M9A502T**	**M9C502T**	**M9W502T**	0.38	9.65	47	70	600	2700
48	12	**M9B505T**	**M9A505T**	**M9C505T**	**M9W505T**	0.48	12.19	70	104	600	2700
72	12	**M9B507T**	**M9A507T**	**M9C507T**	**M9W507T**	0.48	12.19	70	104	600	2700
96	12	**M9B513T**	**M9A513T**	**M9C513T**	**M9W513T**	0.55	13.89	93	138	600	2700
144	12	**M9B509T**	**M9A509T**	**M9C509T**	**M9W509T**	0.70	17.78	149	222	600	2700
216	12	**M9B520T**	**M9A520T**	**M9C520T**	**M9W520T**	0.72	18.16	148	220	600	2700
Riser (NEC/CEC OFNR/OFN FT4)											
6	6	**M9B810**	**M9A810**	**M9C810**	**M9W810**	0.38	9.65	63	94	600	2700
12	6	**M9B811**	**M9A811**	**M9C811**	**M9W811**	0.38	9.65	62	92	600	2700
24	6	**M9B812**	**M9A812**	**M9C812**	**M9W812**	0.38	9.65	61	91	600	2700
36	6	**M9B813**	**M9A813**	**M9C813**	**M9W813**	0.38	9.65	60	89	600	2700
48	12	**M9B814**	**M9A814**	**M9C814**	**M9W814**	0.48	12.20	89	132	600	2700
72	12	**M9B815**	**M9A815**	**M9C815**	**M9W815**	0.48	12.20	87	129	600	2700
96	12	**M9B816**	**M9A816**	**M9C816**	**M9W816**	0.55	13.89	114	170	600	2700
144	12	**M9B817**	**M9A817**	**M9C817**	**M9W817**	0.70	17.78	187	278	600	2700

Alternative fiber counts are available.
All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

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Single Jacket, All Dielectric Cable

Loose Tube — Indoor/Outdoor Plenum Rated

Applications

- Medium to high fiber count requirements
- Inter-building duct installations
- Lashed aerial
- Indoor/outdoor
- Campus backbones
- Data Centers
- High Density Cable Trays

Product Description

Dry waterblocking technology used within tubes and under jacket. Available as Plenum rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Small diameter and bend radius facilitate installation in tight spaces. Full dielectric construction, no grounding required. Available with up to 144 fibers. Fibers grouped into sets of 12 for maximum density. Length markings in meters for easy determination of cable length.

Jacket Material	
Non-unitized	PVC
Unitized	PVDF
Buffer Tube	PVC
Strength Member	E-Glass and Aramid Yarn
Central Strength Member	Upjacketed
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

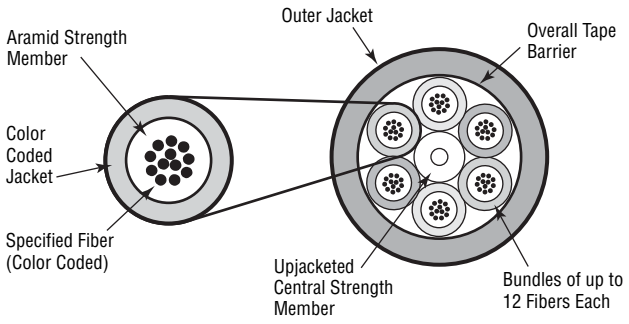
Ratings

Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-40 to +70°C
Installation	0 to +60°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



2 – 12 FIBERS **>12 – 144 FIBERS**

No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Loose Tube Series											
Plenum (NEC/CEC OFNP/OFN FT6)											
6	6	**M9B202**	**M9A202**	**M9C202**	**M9W202**	0.265	6.70	33	49	320	1423
12	12	**M9B204**	**M9A204**	**M9C204**	**M9W204**	0.265	6.70	33	49	320	1423
24	12	**M9B205**	**M9A205**	**M9C205**	**M9W205**	0.359	9.12	47	70	405	1801
36	12	**M9B206**	**M9A206**	**M9C206**	**M9W206**	0.359	9.12	47	70	405	1801
48	12	**M9B207**	**M9A207**	**M9C207**	**M9W207**	0.359	9.12	48	71	405	1801
72	12	**M9B209**	**M9A209**	**M9C209**	**M9W209**	0.429	10.90	71	106	585	2602
96	12	**M9B211**	**M9A211**	**M9C211**	**M9W211**	0.501	12.73	105	156	903	4017
144	12	**M9B215**	**M9A215**	**M9C215**	**M9W215**	0.665	16.89	189	281	1263	5618

Alternative fiber counts and hybrid constructions are available.
All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

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Double Jacket, Armored Cable

Loose Tube – Outdoor, and Indoor/Outdoor Riser Rated

Applications

- Direct burial
- Low to high fiber count requirements
- Inter-building duct installations
- Indoor/outdoor
- Industrial outside plant

Product Description

Gel-filled buffer tube prevents water migration. Available as Riser rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Rodent resistant. Available in sizes up to 216 fibers. Length markings in meters for easy determination of cable length.

Jacket Material	
Outdoor	PE
Riser	PVC
Buffer Tube	
Outdoor	PBT
Riser	PVC
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

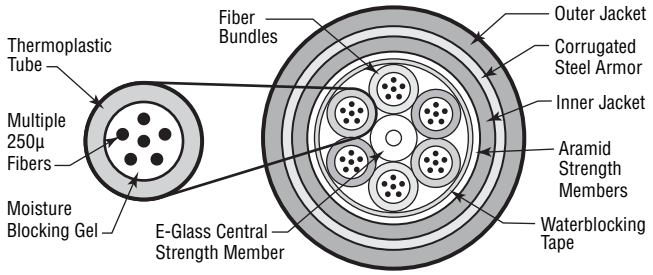
Ratings

Riser	
UL Type	OFCR
cUL Type	OFC FT4
Flame Resistance	UL 1666

Specifications

Temperature Range (Outdoor)	
Storage	-50 to +80°C
Operating	-40 to +70°C
Temperature Range (Riser)	
Storage	-40 to +80°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Loose Tube Series — Armored											
Outdoor											
6	6	**M9B381T**	**M9A381T**	**M9C381T**	**M9W381T**	0.53	13.46	101	150	600	2700
12	6	**M9B382T**	**M9A382T**	**M9C382T**	**M9W382T**	0.53	13.46	102	152	600	2700
24	6	**M9B384T**	**M9A384T**	**M9C384T**	**M9W384T**	0.53	13.46	103	153	600	2700
36	6	**M9B386T**	**M9A386T**	**M9C386T**	**M9W386T**	0.53	13.46	103	153	600	2700
48	12	**M9B389T**	**M9A389T**	**M9C389T**	**M9W389T**	0.65	16.51	144	214	600	2700
72	12	**M9B391T**	**M9A391T**	**M9C391T**	**M9W391T**	0.65	16.51	142	211	600	2700
96	12	**M9B398T**	**M9A398T**	**M9C398T**	**M9W398T**	0.69	17.53	168	250	600	2700
144	12	**M9B393T**	**M9A393T**	**M9C393T**	**M9W393T**	0.87	22.10	241	359	600	2700
216	12	**M9B400T**	**M9A400T**	**M9C400T**	**M9W400T**	0.87	22.10	241	359	600	2700
Riser (NEC/CEC OFCR/OFC FT4)											
6	6	**M9B890**	**M9A890**	**M9C890**	**M9W890**	0.54	13.72	138	205	600	2700
12	6	**M9B891**	**M9A891**	**M9C891**	**M9W891**	0.54	13.72	137	204	600	2700
24	6	**M9B892**	**M9A892**	**M9C892**	**M9W892**	0.54	13.72	136	202	600	2700
36	6	**M9B893**	**M9A893**	**M9C893**	**M9W893**	0.54	13.72	135	201	600	2700
48	12	**M9B894**	**M9A894**	**M9C894**	**M9W894**	0.66	16.76	176	262	600	2700
72	12	**M9B895**	**M9A895**	**M9C895**	**M9W895**	0.66	16.76	172	256	600	2700
96	12	**M9B896**	**M9A896**	**M9C896**	**M9W896**	0.70	17.78	206	307	600	2700
144	12	**M9B897**	**M9A897**	**M9C897**	**M9W897**	0.88	22.35	302	449	600	2700

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Double Jacket, Heavy-Duty Cable

Loose Tube — Outdoor

Applications

- Direct burial
- Harsh environments
- Applications requiring good ozone-, moisture- and weather-resistance

Product Description

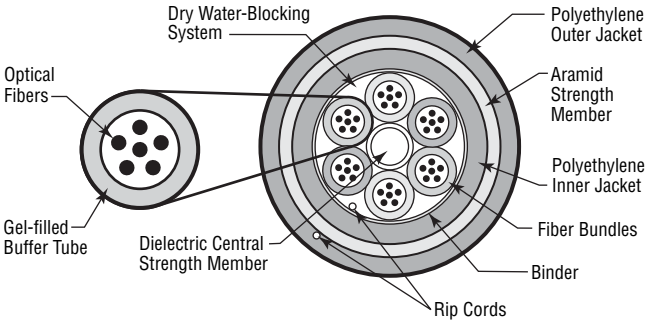
Gel-filled buffer tube prevents water migration.
Available with up to 216 fibers.

Jacket Material	
Outer Jacket:	PE
Inner Jacket:	PE
Buffer Tube	PBT
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Core Wrap	Water Swellable Tape
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

Specifications

Temperature Range	
Storage	-50 to +80°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Loose Tube Series — Heavy Duty											
Outdoor											
2	2	**M9B840**	**M9A840**	**M9C840**	**M9W840**	0.44	11.18	60	89	600	2700
4	4	**M9B841**	**M9A841**	**M9C841**	**M9W841**	0.44	11.18	60	89	600	2700
6	6	**M9B842**	**M9A842**	**M9C842**	**M9W842**	0.44	11.18	60	89	600	2700
8	4	**M9B843**	**M9A843**	**M9C843**	**M9W843**	0.44	11.18	60	89	600	2700
12	6	**M9B844**	**M9A844**	**M9C844**	**M9W844**	0.44	11.18	60	89	600	2700
18	6	**M9B845**	**M9A845**	**M9C845**	**M9W845**	0.44	11.18	60	89	600	2700
24	6	**M9B846**	**M9A846**	**M9C846**	**M9W846**	0.44	11.18	60	89	600	2700
36	6	**M9B847**	**M9A847**	**M9C847**	**M9W847**	0.44	11.18	60	89	600	2700
48	12	**M9B848**	**M9A848**	**M9C848**	**M9W848**	0.54	13.72	136	202	600	2700
72	12	**M9B849**	**M9A849**	**M9C849**	**M9W849**	0.54	13.72	136	202	600	2700
96	12	**M9B820**	**M9A820**	**M9C820**	**M9W820**	0.61	15.37	152	226	600	2700
144	12	**M9B821**	**M9A821**	**M9C821**	**M9W821**	0.76	19.30	255	379	600	2700
216	12	**M9B822**	**M9A822**	**M9C822**	**M9W822**	0.76	19.30	255	379	600	2700

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

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Central Tube Cable

Loose Tube—Outdoor, and Outdoor Armored

Applications

- Campus OSP backbones
- Drop cable
- Telecommunications and data trunk
- Direct burial (armored only)
- Lashed aerial

Product Description

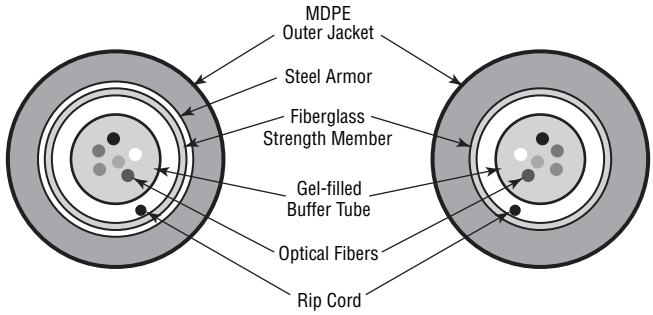
Economical option for low fiber counts. Quick and easy end preparation. Fully waterblocked with gel-filled buffer tube. No rods – easy handling. Crush, impact and abrasion resistant.

Jacket Material	PE
Buffer Tube	PBT
Core Wrap	Water Swellable Tape
Strength Member	Fiberglass
Armor	Corrugated Steel
Color Codes (Jacket & Fibers)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



SINGLE ARMOR **ALL DIELECTRIC**

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Central Tube Series										
Outdoor										
2	**M9B150**	**M9A150**	**M9C150**	**M9W150**	0.325	8.26	36	54	600	2700
4	**M9B151**	**M9A151**	**M9C151**	**M9W151**	0.325	8.26	36	54	600	2700
6	**M9B152**	**M9A152**	**M9C152**	**M9W152**	0.325	8.26	36	54	600	2700
8	**M9B153**	**M9A153**	**M9C153**	**M9W153**	0.325	8.26	36	54	600	2700
10	**M9B154**	**M9A154**	**M9C154**	**M9W154**	0.325	8.26	36	54	600	2700
12	**M9B155**	**M9A155**	**M9C155**	**M9W155**	0.325	8.26	36	54	600	2700
Outdoor Armored										
2	**M9B170**	**M9A170**	**M9C170**	**M9W170**	0.410	10.41	72	108	600	2700
4	**M9B171**	**M9A171**	**M9C171**	**M9W171**	0.410	10.41	72	108	600	2700
6	**M9B172**	**M9A172**	**M9C172**	**M9W172**	0.410	10.41	72	108	600	2700
8	**M9B173**	**M9A173**	**M9C173**	**M9W173**	0.410	10.41	72	108	600	2700
10	**M9B174**	**M9A174**	**M9C174**	**M9W174**	0.410	10.41	72	108	600	2700
12	**M9B175**	**M9A175**	**M9C175**	**M9W175**	0.410	10.41	72	108	600	2700

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Micro Loose Tube Breakout Style Cable

Loose Tube – Outdoor, Indoor/Outdoor OFN & Indoor/Outdoor Riser Rated

Applications

- Ducts between buildings (above or below frost lines)
- Lashed aerial
- Telecommunications and data trunk

Product Description

Easy handling and termination of a breakout style cable. Loose buffer dimensions compatible with standard connectors (900 µm). Waterblocking gel for moisture protection. Breakout kits not required for connectorization.

Jacket Material	
Outdoor	PE
Riser	PVC
General Purpose	TPE
Buffer tube	
Outdoor + Riser	PBT
Strength Elements	Aramid Yarn
Strength Member(s)	Upjacketed Aramid
Color Codes (Jacket & Fibers)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

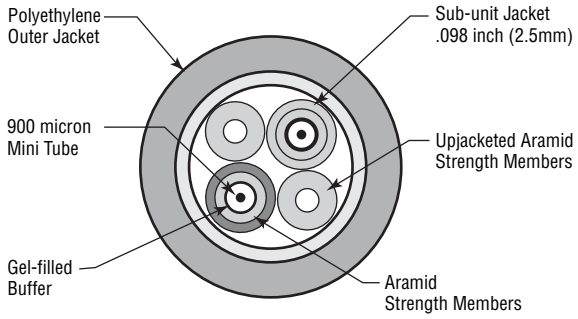
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
General Purpose	
UL/cUL Type	OFN
Flame Resistance	UL 1581

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	600 N/cm
Impact Resistance (EIA-455-25)	20 Impacts @ 1.0 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



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Micro Loose Tube Breakout Style Cable

Loose Tube – Outdoor, Indoor/Outdoor OFN & Indoor/Outdoor Riser Rated *(continued)*

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Micro Loose Tube Series										
Outdoor										
1	**M9B700**	**M9A700**	**M9C700**	**M9W700**	0.340	8.64	41	61	330	1468
2	**M9B701**	**M9A701**	**M9C701**	**M9W701**	0.360	9.14	41	61	345	1535
4	**M9B702**	**M9A702**	**M9C702**	**M9W702**	0.360	9.14	39	58	285	1267
6	**M9B703**	**M9A703**	**M9C703**	**M9W703**	0.418	10.62	54	80	405	1801
8	**M9B704**	**M9A704**	**M9C704**	**M9W704**	0.478	12.14	76	113	600	2700
12	**M9B705**	**M9A705**	**M9C705**	**M9W705**	0.614	15.60	129	192	600	2700
Indoor/Outdoor OFN										
1	**M9B720**	**M9A720**	**M9C720**	**M9W720**	0.344	8.74	50	74	330	1468
2	**M9B721**	**M9A721**	**M9C721**	**M9W721**	0.364	9.25	51	76	345	1535
4	**M9B722**	**M9A722**	**M9C722**	**M9W722**	0.364	9.25	49	73	285	1267
6	**M9B723**	**M9A723**	**M9C723**	**M9W723**	0.424	10.72	68	101	405	1801
8	**M9B724**	**M9A724**	**M9C724**	**M9W724**	0.482	12.24	77	115	600	2700
12	**M9B725**	**M9A725**	**M9C725**	**M9W725**	0.618	15.70	130	193	600	2700
Indoor/Outdoor Riser										
1	**M9B740**	**M9A740**	**M9C740**	**M9W740**	0.352	8.94	54	80	330	1468
2	**M9B741**	**M9A741**	**M9C741**	**M9W741**	0.372	9.45	55	82	345	1535
4	**M9B742**	**M9A742**	**M9C742**	**M9W742**	0.372	9.45	51	76	285	1267
6	**M9B743**	**M9A743**	**M9C743**	**M9W743**	0.432	10.97	74	110	405	1801
8	**M9B744**	**M9A744**	**M9C744**	**M9W744**	0.490	12.45	94	140	600	2700
12	**M9B745**	**M9A745**	**M9C745**	**M9W745**	0.626	15.90	151	229	600	2700

Please contact the Technical Support Group for proper connectivity integration and installation guidance.
All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

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TrayOptic® Heavy-Duty, All Dielectric Cable

Loose Tube — Indoor/Outdoor Riser Rated

Applications

- Industrial and other harsh environment applications
- Factory automation
- Direct burial

Product Description

Laser Optimized Fiber to handle Gigabit Ethernet light sources and expanded bandwidth requirements. Passes IEEE 383-2003 flame test. Waterblocking agent for moisture protection. CPE outer jacket option provides extra chemical or abrasion resistance.

Fiber Type	62.5/125µ
Jacket Material	PVC or CPE
Strength Member	Aramid Yarn
Jacket Color	Orange

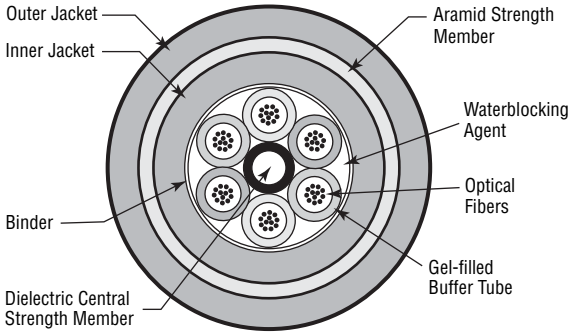
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	IEEE 383-2003

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 impacts @ 1.6N-m
Cyclic Flexing (EIA-455-104)	25 cycles, 12 lbs., 20 x OD radius min.
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Maximum Installation Load	600 lbs. (2700 N)
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Outside Diameter		PVC Jacket			CPE Jacket		
		Inches	mm	Belden Part No.	Weight Lbs./1000′	Weight kg/km	Belden Part No.	Weight Lbs./1000′	Weight kg/km
TrayOptic Series									
Riser (NEC/CEC OFNR/OFN FT4)									
2	2	0.440	11.18	**I100255**	88	131	**I100266**	83	124
4	4	0.440	11.18	**I100455**	88	131	**I100466**	83	124
6	6	0.440	11.18	**I100655**	88	131	**I100666**	83	124
8	4	0.440	11.18	**I400855**	88	131	**I400866**	83	124
12	6	0.440	11.18	**I601255**	88	131	**I601266**	83	124
18	6	0.440	11.18	**I601855**	88	131	**I601866**	83	124
24	6	0.440	11.18	**I602455**	88	131	**I602466**	83	124
36	6	0.440	11.18	**I603655**	88	131	**I603666**	83	124
48	12	0.540	13.72	**I604855**	136	202	**I604866**	129	192
60	12	0.540	13.72	**I606055**	136	202	**I606066**	129	192
72	12	0.540	13.72	**I607255**	136	202	**I607266**	129	192

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11 Enclosures and Accessories



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Please refer to “Terms of Use of Master Catalog” on page 22.22

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Introduction

Belden: Resources Of a Higher Magnitude

Belden is the largest company of its kind, combining cable, connectivity, enclosures and many other product solutions for highly technical industries around the globe. As the exclusive occupant in this market position, Belden provides thousands of satisfied customers with over a billion dollars worth of trusted solutions every year, much of which supports the commercial networking sector. By combining our expertise in the design and manufacture of cable, connectivity, enclosures and related products, Belden now offers a product line of staggering magnitude, engineering triumphs and rich resources — worldwide.

Belden Enclosures

The complete line of Belden Enclosure solutions are designed to meet the unique needs of data networks and control console systems. Whether it's the protection of sensitive data equipment, the ability to mount equipment of varied sizes and depths, or the need to organize and neatly route installed cable, Belden has the solution you need. Belden provides you with single source convenience for all of your cable management requirements.

Enclosures and Racks

Choose from a variety of vertical enclosures, open frame racks and wall mount enclosures, all expertly engineered to optimize product quality and performance and manufactured in the United States for quick availability. Although standard configurations of the most popular enclosures are offered for fast delivery needs, all custom enclosures and racks have numerous mounting, cable and patch cord management options, along with a variety of accessories. This selection of Belden enclosures and racks will meet virtually any mounting, storage or protection requirement for your application.

Single Sourcing Convenience

The Cable Management product families in this catalog are offered to cabling professionals for ultimate convenience in single sourcing. As a Belden customer, you also have the assurance of total dependability by working with a market leader and a trusted partner who has a vested interest in optimizing your operations and investments. We want to make sure you not only get the products you need with ease, but they also perform reliably.

Freestanding Modular Enclosures

Type	Rack Space	Heights (inches)	Panel Mount (inches)	Width (inches)	Depth (inches)
Data Standard	25, 39, 42, 46U	48, 72, 78, 84	19 or 23	29	30
Data Deep	39, 42, 46U	72, 78, 84	19 or 23	29	34
Data Slim	25, 39, 42, 46U	48, 72, 78, 84	19	24	30
Ultra Server	42U, 45U	78, 84	19	24	36
Ultra Deep Server	45U	84	19	24	42
Giga Server	45U	84	19	26	42

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Modular Enclosures

Data Standard Enclosure
29″ Wide x 30″ Deep

BST-Style Data Standard Enclosure



Data Standard Enclosure

The Data Standard is a freestanding enclosure that easily accommodates large components. The unit's mounting rails can be adjusted, after installation, from 19″ EIA to 23″ EIA spacing to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- **Reversible Doors:** Spring-loaded hinges allow quick change of door swing.
- **Lift-off Side Panels:** Flush surface lock fasteners permit quick disconnect and lift off.
- **Cable Gland Plate:** Adjustable bottom plate minimizes dirt and dust inside the enclosure.
- **Cable Access Top:** Features a 14.25″ x 4″ cable access rubber gland which helps prevent dust from entering the enclosure.
- **Rear Cable Plate:** Two, 3-7/8″ x 8-1/2″ openings for cable access with removable plates and edge grommet kit. Also features two 1.75″ capped openings.
- **Tempered Safety Glass:** Strengthens door and its easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- **Grounding kit Included.**

Frames



BST 48 BST 72 BST 78 BST 84

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

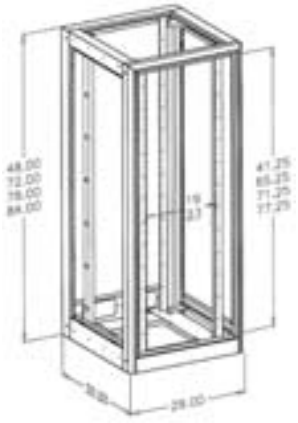
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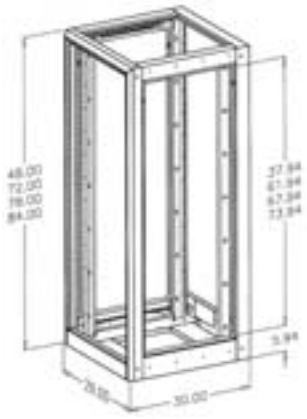
Modular Enclosures

Data Standard Enclosure
29″ Wide x 30″ Deep *(continued)*

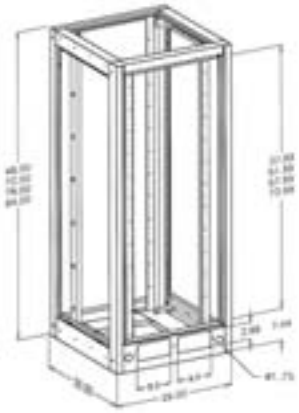
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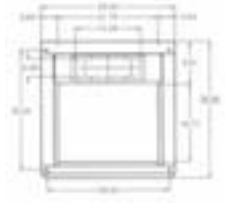
Front



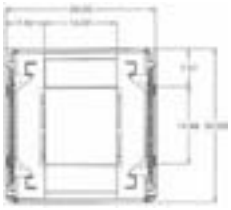
Side



Back



Top



Bottom

Technical Specifications

Enclosure Size		H	W	D	Weight	Mounting	Rack Spaces
BST48	Frame, Gland Plate, Casters & Levelers	48″	29″	30″	230 lb	19″, 23″ or Frame Mount Shelf	25U
BST72	Frame, Gland Plate, Casters & Levelers	72″	29″	30″	325 lb	19″, 23″ or Frame Mount Shelf	39U
BST78	Frame, Gland Plate, Casters & Levelers	78″	29″	30″	350 lb	19″, 23″or Frame Mount Shelf	42U
BST84	Frame, Gland Plate, Casters & Levelers	84″	29″	30″	360 lb	19″, 23″ or Frame Mount Shelf	46U

EIA - 310 - D Compliant

Description	Belden Part Number
Data Standard 84″ Black, 19″ Mounting, 10″ Fan Top, Glass Door, Vented Rear Door, Two Sides, 20 Amp Power Strip	**BST84-3-122226**
Data Standard 84″ Black Frames w/19″ Mounting	**BST84-3-100000**

How To Order

BST – [ ] — [ ] — [ ] [ ] [ ] [ ] [ ]

Frame Height

48
72
78
84

Color

#	Description
1	Blue
2	Beige
3	Black
4	Gray

Mounting

#	Description
1	19″ mounting
2	23″ mounting
3	6mm mounting
0	None
	(Frame Mount Shelf Application)

Top

#	Description
2	10″ Diameter Fan
3	4″ Diameter Fans
4	Solid
5	Vented
0	None

Front

#	Description
1	Solid
2	Glass
3	Glass Vented
4	Perforated
0	None

Rear

#	Description
1	Solid
2	Vented
3	Filtered
0	None

Sides

#	Description
1	One Side
2	Two Sides
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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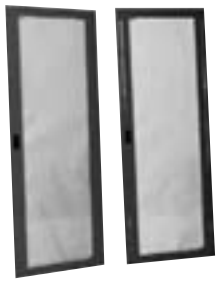
Modular Enclosures

Data Standard Enclosure
29″ Wide x 30″ Deep *(continued)*

Solid Front Door



Tempered Glass Front Door



Rear Doors: Solid, Vented, Filtered



Side Panels



Removable Tops



Description	Belden Part Number
Front Doors	
Solid Front Door	
Solid Steel Front Door with Latch and Lock, 48″	B4829-SF-C
Solid Steel Front Door with Latch and Lock, 72″	B7229-SF-C
Solid Steel Front Door with Latch and Lock, 78″	B7829-SF-C
Solid Steel Front Door with Latch and Lock, 84″	B8429-SF-C
Tempered Glass Front Door	
Tempered Glass Front Door with Latch and Lock, 48″	B4829-GF-C
Tempered Glass Front Door with Latch and Lock, 72″	B7229-GF-C
Tempered Glass Front Door with Latch and Lock, 78″	B7829-GF-C
Tempered Glass Front Door with Latch and Lock, 84″	B8429-GF-C
Glass Vented Front Door	
Tempered Glass Front Vented Door with Latch and Lock, 48″	B4829-VF-C
Tempered Glass Front Vented Door with Latch and Lock, 72″	B7229-VF-C
Tempered Glass Front Vented Door with Latch and Lock, 78″	B7829-VF-C
Tempered Glass Front Vented Door with Latch and Lock, 84″	B8429-VF-C
Perforated Front Door	
Perforated Front Door with Latch and Lock, 48″	B4829-PD-C
Perforated Front Door with Latch and Lock, 72″	B7229-PD-C
Perforated Front Door with Latch and Lock, 78″	B7829-PD-C
Perforated Front Door with Latch and Lock, 84″	B8429-PD-C
Rear Doors	
Solid Rear Door	
Solid Steel Rear Door with Latch and Lock, 48″	B4829-SR-C
Solid Steel Rear Door with Latch and Lock, 72″	B7229-SR-C
Solid Steel Rear Door with Latch and Lock, 78″	B7829-SR-C
Solid Steel Rear Door with Latch and Lock, 84″	B8429-SR-C
Vented Rear Door	
Vented Steel Rear Door with Latch and Lock, 48″	B4829-VR-C
Vented Steel Rear Door with Latch and Lock, 72″	B7229-VR-C
Vented Steel Rear Door with Latch and Lock, 78″	B7829-VR-C
Vented Steel Rear Door with Latch and Lock, 84″	B8429-VR-C
Filtered Rear Door	
Filtered Rear Door with Latch and Lock, 48″	B4829-FR-C
Filtered Rear Door with Latch and Lock, 72″	B7229-FR-C
Filtered Rear Door with Latch and Lock, 78″	B7829-FR-C
Filtered Rear Door with Latch and Lock, 84″	B8429-FR-C
Side Panels	
Single Side Panels	
1-Solid Lift-off Side Panel with Lock, 48″	B4801-SP-C
1-Solid Lift-off Side Panel with Lock, 72″	B7201-SP-C
1-Solid Lift-off Side Panel with Lock, 78″	B7801-SP-C
1-Solid Lift-off Side Panel with Lock, 84″	B8401-SP-C
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock, 48″	B4802-SP-C
2-Solid Lift-off Side Panels with Lock, 72″	B7202-SP-C
2-Solid Lift-off Side Panels with Lock, 78″	B7802-SP-C
2-Solid Lift-off Side Panels with Lock, 84″	B8402-SP-C
Removable Tops	
Solid Top	B2918-TP-1-C
Vented Top	B2918-TP-2-C
Solid Top with 10″ Diameter Fan, 550 CFM	B2918-TP-3-C
Solid Top with (4) 4″ Diameter Fans, Four Fans = 320 CFM	B2918-TP-4-C

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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Modular Enclosures

Data Deep Enclosure
29″ Wide x 34″ Deep

BDP-Style Data Deep Enclosure



Data Deep Enclosure

The Data Deep is a freestanding enclosure that features a 34″ depth for mounting servers, UPS units, controllers, battery backups, network monitors and more. The unit's mounting rails can be adjusted, after installation, from 19″ EIA to 23″ EIA spacing to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- **Reversible Doors:** Spring-loaded hinges allow quick change of door swing.
- **Lift-off Side Panels:** Flush surface lock fasteners permit quick disconnect and lift off.
- **Cable Gland Plate:** Adjustable bottom plate minimizes dirt and dust inside the enclosure.
- **Cable Access Top:** Features a 14.25″ x 4″ cable access rubber gland which helps prevent dust from entering the enclosure.
- **Rear Cable Plate:** Two, 3-7/8″ x 8-1/2″ openings for cable access with removable plates and edge grommet kit. Also features two 1.75″ capped openings.
- **Tempered Safety Glass:** Strengthens door and its easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- **Grounding kit Included.**

Frames



BDP 72 BDP 78 BDP 84

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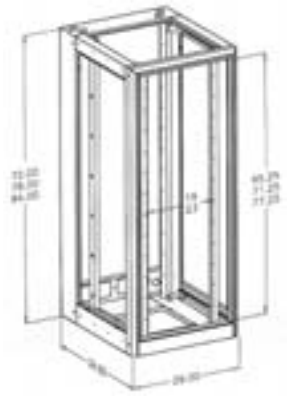
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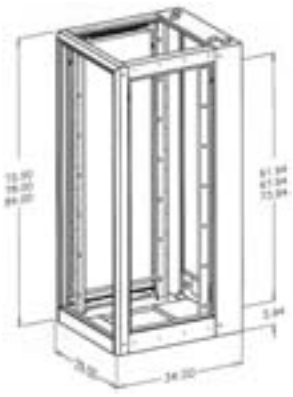
Modular Enclosures

Data Deep Enclosure
29″ Wide x 34″ Deep *(continued)*

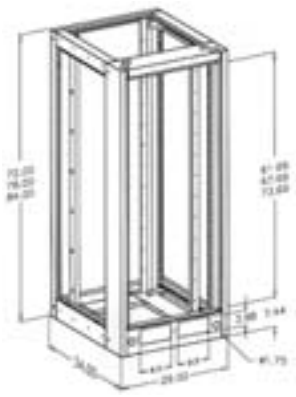
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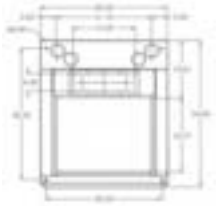
Front



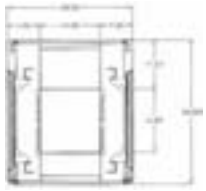
Side



Back



Top



Bottom

Technical Specifications

Enclosure Size		H	W	D	Weight	Mounting	Rack Spaces
BDP72	Frame, Gland Plate, Casters & Levelers	72″	29″	34″	350 lb	19″, 23″ or Frame Mount Shelf	39U
BDP78	Frame, Gland Plate, Casters & Levelers	78″	29″	34″	380 lb	19″, 23″ or Frame Mount Shelf	42U
BDP84	Frame, Gland Plate, Casters & Levelers	84″	29″	34″	390 lb	19″, 23″ or Frame Mount Shelf	46U

EIA - 310 - D Compliant

Description	Belden Part Number
Data Deep 84″ Black, 19″ Mounting, 10″ Fan Top, Glass Door, Vented Rear Door, Two Sides, 20 Amp Power Strip	**BDP84-3-122226**
Data Deep 84″ Black Frames w/19″ Mounting	**BDP84-3-100000**

How To Order

BDP – [Frame Height] — [Color] [Mounting] [Top] [Front] [Rear] [Sides] [Power Strips]

Frame Height

72
78
84

Color

#	Description
1	Blue
2	Beige
3	Black
4	Gray

Mounting

#	Description
1	19″ mounting
2	23″ mounting
3	6mm mounting
0	None (Frame Mount Shelf Application)

Top

#	Description
2	10″ Diameter Fan
3	4″ Diameter Fans
4	Solid
5	Vented
0	None

Front

#	Description
1	Solid
2	Glass
3	Glass Vented
4	Perforated
0	None

Rear

#	Description
1	Solid
2	Vented
3	Filtered
0	None

Sides

#	Description
1	One Side
2	Two Sides
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

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Modular Enclosures

Data Deep Enclosure
29″ Wide x 34″ Deep *(continued)*

Tempered Glass Front Door



Rear Doors: Solid, Vented, Filtered



Side Panels



Removable Tops



Description	Belden Part Number
Front Doors	
Solid Front Door	
Solid Steel Front Door with Latch and Lock, 72″	B7229-SF-C
Solid Steel Front Door with Latch and Lock, 78″	B7829-SF-C
Solid Steel Front Door with Latch and Lock, 84″	B8429-SF-C
Tempered Glass Front Door	
Tempered Glass Front Door with Latch and Lock, 72″	B7229-GF-C
Tempered Glass Front Door with Latch and Lock, 78″	B7829-GF-C
Tempered Glass Front Door with Latch and Lock, 84″	B8429-GF-C
Glass Vented Front Door	
Tempered Glass Front Vented Door with Latch and Lock, 72″	B7229-VF-C
Tempered Glass Front Vented Door with Latch and Lock, 78″	B7829-VF-C
Tempered Glass Front Vented Door with Latch and Lock, 84″	B8429-VF-C
Perforated Front Door	
Perforated Front Door with Latch and Lock, 72″	B7229-PD-C
Perforated Front Door with Latch and Lock, 78″	B7829-PD-C
Perforated Front Door with Latch and Lock, 84″	B8429-PD-C
Rear Doors	
Solid Rear Door	
Solid Steel Rear Door with Latch and Lock, 72″	B7229-SR-C
Solid Steel Rear Door with Latch and Lock, 78″	B7829-SR-C
Solid Steel Rear Door with Latch and Lock, 84″	B8429-SR-C
Vented Rear Door	
Vented Steel Rear Door with Latch and Lock, 72″	B7229-VR-C
Vented Steel Rear Door with Latch and Lock, 78″	B7829-VR-C
Vented Steel Rear Door with Latch and Lock, 84″	B8429-VR-C
Filtered Rear Door	
Filtered Rear Door with Latch and Lock, 72″	B7229-FR-C
Filtered Rear Door with Latch and Lock, 78″	B7829-FR-C
Filtered Rear Door with Latch and Lock, 84″	B8429-FR-C
Side Panels	
Single Side Panel	
1-Solid Lift-off Side Panel with Lock, 72″	B7201-SP-C
1-Solid Lift-off Side Panel with Lock, 78″	B7801-SP-C
1-Solid Lift-off Side Panel with Lock, 84″	B8401-SP-C
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock, 72″	B7202-SP-C
2-Solid Lift-off Side Panels with Lock, 78″	B7802-SP-C
2-Solid Lift-off Side Panels with Lock, 84″	B8402-SP-C
Removable Tops	
Solid Top	B2918-TP-1-C
Vented Top	B2918-TP-2-C
Solid Top with 10″ Diameter Fan, 550 CFM	B2918-TP-3-C
Solid Top with (4) 4″ Diameter Fans, Four Fans = 320 CFM	B2918-TP-4-C

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Modular Enclosures

Data Slim Enclosure
24″ Wide x 30″ Deep

BSL-Style Data Slim Enclosure



Data Slim Enclosure

The Data Slim is a freestanding enclosure with a 24″ footprint. This makes the enclosure ideal for computer rooms where space is at a premium. The unit's mounting rails have 19″ EIA spacing to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- **Reversible Doors:** Spring-loaded hinges allow quick change of door swing.
- **Lift-off Side Panels:** Flush surface lock fasteners permit quick disconnect and lift off.
- **Cable Gland Plate:** Adjustable bottom plate minimizes dirt and dust inside the enclosure.
- **Cable Access Top:** Features a 14.25″ x 4″ cable access rubber gland which helps prevent dust from entering the enclosure.
- **Rear Cable Plate:** One, 3-7/8″ x 8-1/2″ openings for cable access with a removable plate and edge grommet kit. Also features two 1.75″ capped openings.
- **Tempered Safety Glass:** Strengthens door and its easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- **Grounding kit Included.**

Frames



BSL 48 BSL 72 BSL 78 BSL 84

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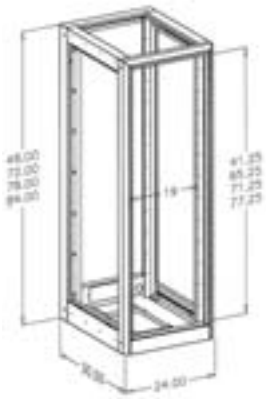
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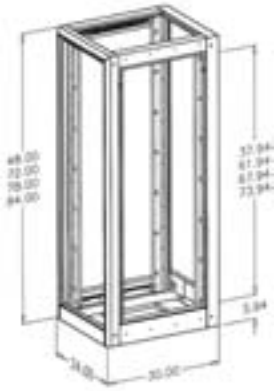
Modular Enclosures

Data Slim Enclosure
24″ Wide x 30″ Deep *(continued)*

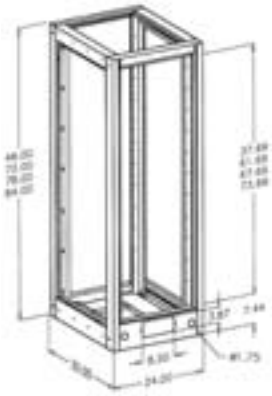
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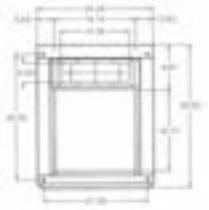
Front



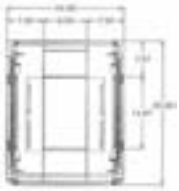
Side



Back



Top



Bottom

Technical Specifications

Enclosure Size		H	W	D	Weight	Mounting	Rack Spaces
BSL48	Frame, 2 pr 19″ mtg Rails, Casters & Levelers	48″	24″	30″	230 lb	19″	25U
BSL72	Frame, 2 pr 19″ mtg Rails, Casters & Levelers	72″	24″	30″	320 lb	19″	39U
BSL78	Frame, 2 pr 19″ mtg Rails, Casters & Levelers	78″	24″	30″	340 lb	19″	42U
BSL84	Frame, 2 pr 19″ mtg Rails, Casters & Levelers	84″	24″	30″	350 lb	19″	46U

EIA - 310 - D Compliant

Description	Belden Part Number
Data Slim 84″ Black, 19″ Mounting, 10″ Fan Top, Glass Door, Vented Rear Door, Two Sides, 20 Amp Power Strip	**BSL84-3-122226**
Data Slim 84″ Black Frames w/19″ Mounting	**BSL84-3-100000**

How To Order

BSL – [ ] — [ ] — [ ] [ ] [ ] [ ] [ ] [ ]

Frame Height
48
72
78
84

Color	
#	Description
1	Blue
2	Beige
3	Black
4	Gray

Mounting	
#	Description
1	19″ mounting
2	6mm mounting

Top	
#	Description
2	10″ Diameter Fan
3	4″ Diameter Fans
4	Solid
5	Vented
0	None

Front	
#	Description
1	Solid
2	Glass
3	Glass Vented
4	Perforated
0	None

Rear	
#	Description
1	Solid
2	Vented
3	Filtered
0	None

Sides	
#	Description
1	One Side
2	Two Sides
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips	
#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

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Modular Enclosures

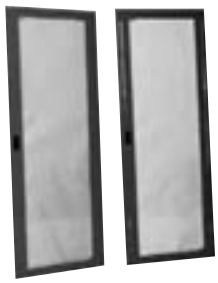
Data Slim Enclosure

24″ Wide x 30″ Deep *(continued)*

Solid Front Door



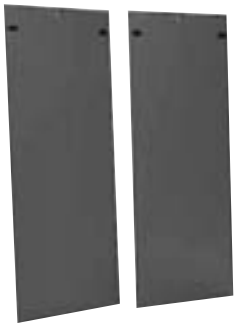
Tempered Glass Front Door



Rear Doors: Solid, Vented, Filtered



Side Panels



Removable Tops



Description	Belden Part Number
Front Doors	
Solid Front Door	
Solid Steel Front Door with Latch and Lock, 48″	B4824-SF-C
Solid Steel Front Door with Latch and Lock, 72″	B7224-SF-C
Solid Steel Front Door with Latch and Lock, 78″	B7824-SF-C
Solid Steel Front Door with Latch and Lock, 84″	B8424-SF-C
Tempered Glass Front Door	
Tempered Glass Front Door with Latch and Lock, 48″	B4824-GF-C
Tempered Glass Front Door with Latch and Lock, 72″	B7224-GF-C
Tempered Glass Front Door with Latch and Lock, 78″	B7824-GF-C
Tempered Glass Front Door with Latch and Lock, 84″	B8424-GF-C
Glass Vented Front Door	
Tempered Glass Front Vented Door with Latch and Lock, 48″	B4824-VF-C
Tempered Glass Front Vented Door with Latch and Lock, 72″	B7224-VF-C
Tempered Glass Front Vented Door with Latch and Lock, 78″	B7824-VF-C
Tempered Glass Front Vented Door with Latch and Lock, 84″	B8424-VF-C
Perforated Front Door	
Perforated Front Door with Latch and Lock, 48″	B4824-PD-C
Perforated Front Door with Latch and Lock, 72″	B7224-PD-C
Perforated Front Door with Latch and Lock, 78″	B7824-PD-C
Perforated Front Door with Latch and Lock, 84″	B8424-PD-C
Rear Doors	
Solid Rear Door	
Solid Steel Rear Door with Latch and Lock, 48″	B4824-SR-C
Solid Steel Rear Door with Latch and Lock, 72″	B7224-SR-C
Solid Steel Rear Door with Latch and Lock, 78″	B7824-SR-C
Solid Steel Rear Door with Latch and Lock, 84″	B8424-SR-C
Vented Rear Door	
Vented Steel Rear Door with Latch and Lock, 48″	B4824-VR-C
Vented Steel Rear Door with Latch and Lock, 72″	B7224-VR-C
Vented Steel Rear Door with Latch and Lock, 78″	B7824-VR-C
Vented Steel Rear Door with Latch and Lock, 84″	B8424-VR-C
Filtered Rear Door	
Filtered Rear Door with Latch and Lock, 48″	B4824-FR-C
Filtered Rear Door with Latch and Lock, 72″	B7224-FR-C
Filtered Rear Door with Latch and Lock, 78″	B7824-FR-C
Filtered Rear Door with Latch and Lock, 84″	B8424-FR-C
Side Panels	
Single Side Panels	
1-Solid Lift-off Side Panel with Lock, 48″	B4801-SP-C
1-Solid Lift-off Side Panel with Lock, 72″	B7201-SP-C
1-Solid Lift-off Side Panel with Lock, 78″	B7801-SP-C
1-Solid Lift-off Side Panel with Lock, 84″	B8401-SP-C
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock, 48″	B4802-SP-C
2-Solid Lift-off Side Panels with Lock, 72″	B7202-SP-C
2-Solid Lift-off Side Panels with Lock, 78″	B7802-SP-C
2-Solid Lift-off Side Panels with Lock, 84″	B8402-SP-C
Removable Tops	
Solid Top	B2418-TP-1-C
Vented Top	B2418-TP-2-C
Solid Top with 10″ Diameter Fan, 550 CFM	B2418-TP-3-C
Solid Top with (4) 4″ Diameter Fans, Four Fans = 320 CFM	B2418-TP-4-C

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Modular Enclosures

Ultra Server Enclosure
24″ Wide x 36″ Deep

BUS-Style Ultra Server Enclosure



Ultra Server Enclosure

The Ultra Server is a freestanding enclosure with a 24″ wide x 36″ deep footprint. The enclosure features numerous top and bottom entry points for easy configuration to match your needs and an anti-tip device to prevent the enclosure from tipping when servers and shelves are extended. The unit's mounting rails have 19″ EIA spacing to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- **Reversible Doors:** Spring-loaded hinges allow quick change of door swing.
- **Lift-off Side Panels:** Flush surface lock fasteners permit quick disconnect and lift off.
- **Door and Side Panel Security:** Doors and side panels lock; handles are flush mounted.
- **Cable Access Top:** Features a 14.25″ x 4″ cable access rubber gland which helps prevent dust from entering the enclosure.
- **Tempered Safety Glass:** Strengthens door and its easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- **Grounding kit Included.**

Frames



BUS 78

BUS 84

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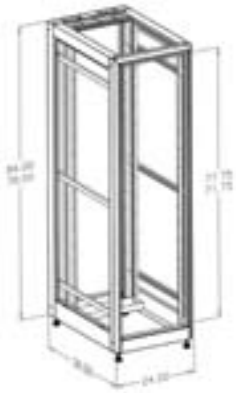
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Modular Enclosures

Ultra Server Enclosure
24″ Wide x 36″ Deep *(continued)*

Dimensions



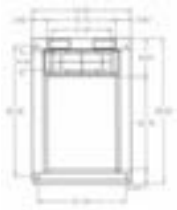
Front



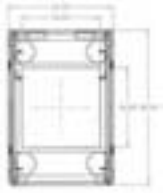
Side



Back



Top



Bottom

Technical Specifications

Enclosure Size		H	W	D	Weight	Mounting	Rack Spaces
BUS78	Frame, 3 pr 19″ Mounting Rails, Casters & Levelers	78″	24″	36″	350 lb	19″	42U
BUS84	Frame, 3 pr 19″ Mounting Rails, Casters & Levelers	84″	24″	36″	370 lb	19″	45U

EIA - 310 - D Compliant

Description	Belden Part Number
Ultra Server 84″ Black, 19″ Mounting, 10″ Fan Top, Perforated Slam Front and Rear Doors, Two Sides, 20 Amp Power Strip	**BUS84-3-122226**
Ultra Server 84″ Black Frames w/19″ Mounting	**BUS84-3-100000**

How To Order

BUS – ☐ — ☐ — **1** ☐ ☐ ☐ ☐ ☐ ☐

Frame Height

78	
84	

Color

#	Description
2	Beige
3	Black

Mounting

#	Description
1	19″ 6mm - 3pr.

Top

#	Description
1	Perforated
2	10″ Diameter Fan
3	4″ Diameter Fans
4	Solid
0	None

Front

#	Description
1	Glass Vented Slam
2	Perforated Slam
3	Glass Vented Swing
4	Perforated Swing
5	Rigid Perf Swing
6	Split Perf Swing
0	None

Rear

#	Description
1	Glass Vented Slam
2	Perforated Slam
3	Glass Vented Swing
4	Perforated Swing
5	Rigid Perf Swing
6	Split Perf Swing
0	None

Sides

#	Description
1	One Side
2	Two Sides
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

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Modular Enclosures

Ultra Server Enclosure
24″ Wide x 36″ Deep *(continued)*

Tempered Glass Vented Doors



Perforated Doors



Side Panels



Description	Belden Part Number
Tempered Glass Vented Doors	
Tempered Glass Front/Rear Door with Latch and Lock, 78″	**B7824-SVF-C**
Tempered Glass Front/Rear Door with Latch and Lock, 84″	**B8424-SVF-C**
Perforated Door	
Perforated Front/Rear Door with Latch and Lock, 78″	**B7824-SPR-C**
Perforated Front/Rear Door with Latch and Lock, 84″	**B8424-SPR-C**

Side Panels

Single Side Panel	
1-Solid Lift-off Side Panel with Lock, 78″	**B7836-01-SP-C**
1-Solid Lift-off Side Panel with Lock, 84″	**B8436-01-SP-C**
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock, 78″	**B7836-02-SP-C**
2-Solid Lift-off Side Panels with Lock, 84″	**B8436-02-SP-C**
Removable Tops/Cooling Devices	
Solid Top	**B2430-TP-1-C**
Solid Top with 10″ Diameter Fan, 550 CFM	**B2430-TP-3-C**
Solid Top with (4) 4″ Diameter Fans, Four Fans = 320 CFM	**B2430-TP-4-C**
Perforated Top	**B2430-TP-6-C**
19″ Fan Tray	**B9315-7200**

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Solid Removable Top w/10″ Fan



Solid Removable Top w/ (4) 4″ Fans



19″ Fan Tray



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Modular Enclosures

Ultra Deep Server Enclosure
24″ Wide x 42″ Deep

BUSD-Style Ultra Deep Server Enclosure



Ultra Deep Server Enclosure

The Ultra Deep Server is a freestanding enclosure with a 24″ wide x 42″ deep footprint. The enclosure features numerous top and bottom entry points for easy configuration to match your needs and an anti-tip device to prevent the enclosure from tipping when servers and shelves are extended. Among the many features and benefits of this modular unit are:

- **Reversible Doors:** Spring-loaded hinges allow quick change of door swing.
- **Split Rear Doors:** French-style perforated rear doors maximize space between enclosures.
- **Lift-off Side Panels:** Flush surface lock fasteners permit quick disconnect and lift off.
- **Door and Side Panel Security:** Doors and side panels lock; handles are flush mounted.
- **Cable Access Top:** Features a 14.25″ x 4″ cable access rubber gland which helps prevent dust from entering the enclosure.
- **Tempered Safety Glass:** Strengthens door and its easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- **Grounding kit Included.**

Frames



BUSD 84

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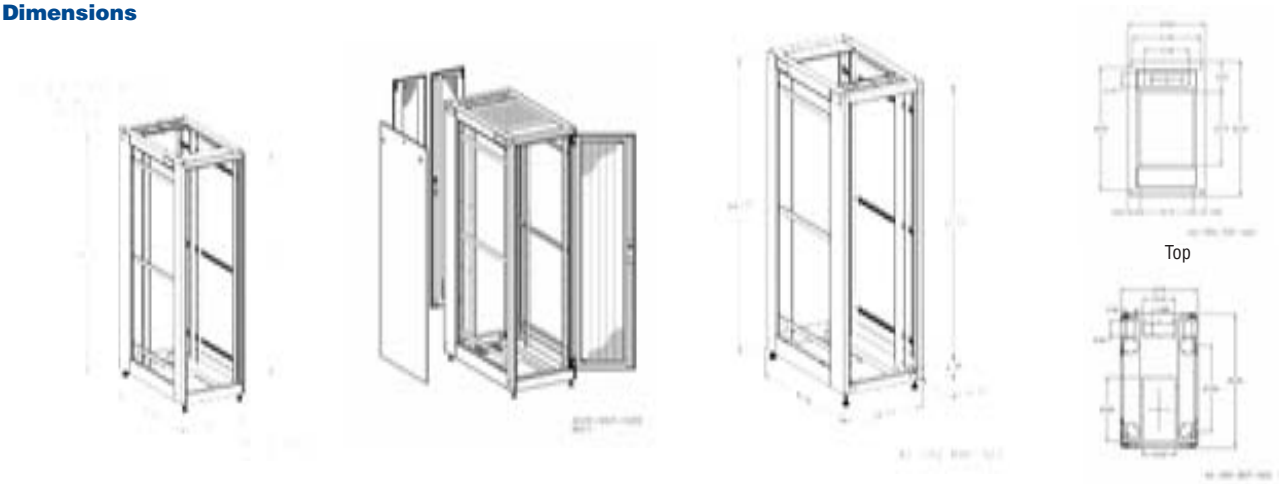
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Modular Enclosures

Ultra Deep Server Enclosure
24″ Wide x 42″ Deep *(continued)*

Dimensions



Front | Side | Back | Top | Bottom

Technical Specifications

Enclosure Size		H	W	D	Weight	Mounting	Rack Spaces
BUSD84	Frame 3 pair 19″ Mounting Rails, Casters, Levelers	84″	24″	42″	400 lb	19″	45U

EIA - 310 - D Compliant

Description	Belden Part Number
Ultra Deep 84″ Black, 19″ Mounting, 10″ Fan Top, Front Rigid Perforated Door, Rear Split Perforated Door, Two Sides, 20 Amp Power Strip	**BUSD84-3-122226**
Ultra Deep 84″ Black Frames w/19″ Mounting	**BUSD84-3-100000**

How To Order

BUSD – **84** — ☐ — **1** ☐ ☐ ☐ ☐ ☐

Frame Height
84

Color

#	Description
2	Beige
3	Black

Mounting

#	Description
1	19″ 6mm- 3pr.

Top

#	Description
1	Perforated
2	10″ Diameter Fan
3	4″ Diameter Fans
4	Solid
0	None

Front

#	Description
1	Glass Vented Swing
2	Rigid Perf Swing
3	Split Perf Swing
4	Glass Vented Slam
5	Perforated Slam
0	None

Rear

#	Description
1	Rigid Perf Swing
2	Split Perf Swing
3	Perforated Swing
4	Glass Vented Swing
5	Glass Vented Slam
6	Perforated Slam
0	None

Sides

#	Description
1	One Side Solid
2	Two Sides Solid
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

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Modular Enclosures

Ultra Deep Server Enclosure
24″ Wide x 42″ Deep *(continued)*

Tempered Glass Vented Doors



Perforated Doors



Side Panels



Description	Belden Part Number
Front Door	
Tempered Glass Front Door	
Tempered Glass Front (Vented) Door with Swing Handle, Latch and Lock	**B8424-DSVF-C**
Rigid Perforated Front Door	
Rigid Perforated Front Door with Swing Handle, Latch and Lock	**B8424-DSPR-C**
Rear Door	
Perforated Rear Door	
Split Door with Swing Handle, Latch and Lock	**B8424-DSSR-C**
Rigid Door with Swing Handle, Latch and Lock	**B8424-DSPR-C**
Door with Swing Handle, Latch and Lock	**B8424-DSVR-C**
Side Panels	
Single Side Panel	
1-Solid Lift-off Side Panel with Lock	**B8436-01-SP-C**
1-Perforated Lift-off Side Panel with Lock	**B8436-01-SPP-C**
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock	**B8436-02-SP-C**
2-Perforated Lift-off Side Panels with Lock	**B8436-02-SPP-C**
Removable Tops/Cooling Devices	
Solid Top	**B2430-TP-1-C**
Solid Top with 10″ Diameter Fan, 550 CFM	**B2430-TP-3-C**
Solid Top with (4) 4″ Diameter Fans, Four Fans = 320 CFM	**B2430-TP-4-C**
Perforated Top	**B2430-TP-6-C**
19″ Fan Tray	**B9315-7200**
Cable Management Troughs	
76.5″ Steel Vertical Cable Trough	**B433-5114**
Steel Front Horizontal Cable Trough	**B433-5115-F**
Steel Rear Horizontal Cable Trough	**B433-5115-R**
Steel Side Horizontal Cable Trough	**B433-5118**

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Solid Removable Top w/10″ Fan



Solid Removable Top w/ (4) 4″ Fans



19″ Fan Tray



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Modular Enclosures

Giga Server Enclosure
26″ Wide x 42″ Deep

BGS-Style Giga Server Enclosure



Giga Server Enclosure

The Giga Server is a freestanding enclosure with a 26″ wide x 42″ deep footprint. Each of the four corners of the enclosure has a built-in vertical cable channel. The unit's mounting rails have 19″ EIA spacing to allow for cable management and different depths of equipment. Hinged cable access panels allow for large bundles of cable to be quickly routed from enclosure to enclosure or from the front of the enclosure to the rear of the enclosure. Among the many features and benefits of this modular unit are:

- **Reversible Door:** Spring-loaded hinges allow quick change of door swing.
- **Split Rear Doors:** French-style perforated rear doors maximize space between enclosures.
- **Lift-off Side Panels:** Flush surface lock fasteners permit quick disconnect lift off.
- **Door and Side Panel Security:** Doors and side panels lock; handles are flush mounted.
- **Integrated Cable Management.**
- **Grounding Kit included.**

Frames



BGS 84

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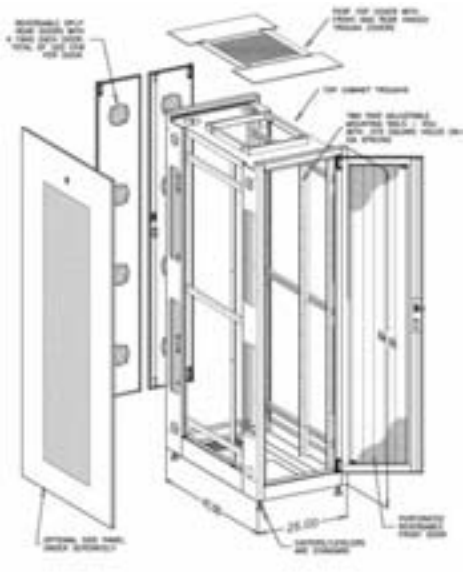
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Modular Enclosures

Giga Server Enclosure
26″ Wide x 42″ Deep *(continued)*

Dimensions



Side

Technical Specifications

Enclosure Size		H	W	D	Weight	Mounting	Rack Spaces
BGS84 84″	Frame, Three Pair 19″ Mounting Rails, Casters, Levelers	84″	26″	42″	450 lb	19″	45U

Description	Belden Part Number
Giga Server 84″ Black, 3-pair 19″ Mounting, Perforated Top, Rigid Perforated Front, Split Fan Doors, Two Perforated Sides, 20 Amp Power Strip	**BGS84-3-112346**
Giga Server 84″ Black, with 3-pair 19″ Mounting	**BGS84-3-100000**

How To Order

BGS – **84** — **3** — **1** — ☐ ☐ ☐ ☐ ☐ ☐

Frame Height
84

Color

#	Description
3	Black

Mounting

#	Description
1	19″ 6mm- 3pr.

Top

#	Description
1	Perforated
0	None

Front

#	Description
2	Rigid Perforated
0	None

Rear

#	Description
2	Split Perf Swing
3	Perforated Swing
0	None

Sides

#	Description
1	One Side Solid
2	Two Sides Solid
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

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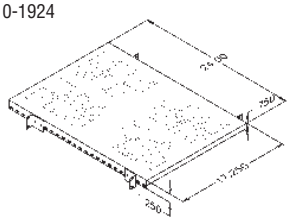
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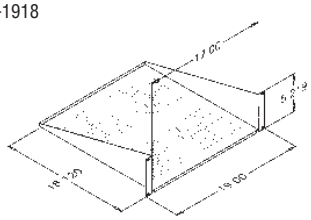
Modular Enclosure Options and Accessories

Enclosure Shelves

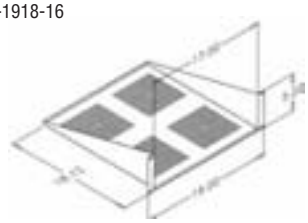
B9010-1924



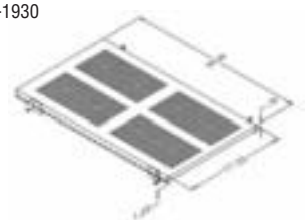
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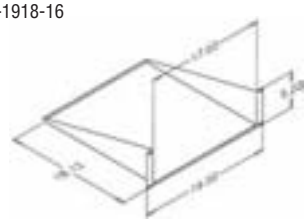
B9011-1918-16



B9010-1930



B9012-1918-16



Enclosure Shelves

Modular Enclosure Shelves are available in widths of 19″ and 23″ with mounting depths of 24″, 30″ and 36″. Load ratings range from 70 lbs up to 200 lbs. All shelves are black in color unless otherwise noted below.

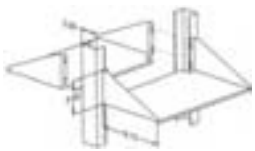
Description	Belden Part Number
19″ Shelves	
19″ Heavy-Duty Adjustable Shelf (Vented)	
4 Point Mounting, 24″ Depth, 150 lb Load Rating	**B9010-1924**
4 Point Mounting, 30″ Depth, 150 lb Load Rating	**B9010-1930**
4 Point Mounting, 36″ Depth, 150 lb Load Rating	**B9010-1936**
19″ Flush Mount Cantilevered Shelf (Vented)	
12″ Depth, Fits 24″ Wall Mount, 70 lb Load Rating	**B9011-1912**
18″ Depth, 75 lb Load Rating	**B9011-1918**
18″ Depth, 50 lb Load Rating	**B9011-1918-16**
19″ Flush Mount Cantilevered Shelf (Solid)	
18″ Depth, 75 lb Load Rating	**B9012-1918**
18″ Depth, 50 lb Load Rating	**B9012-1918-16**
19″ Heavy Duty Sliding Adjustable Shelf (Vented)	
4 Point Mounting, 24″ Depth, 200 lb Load Rating	**B9015-1924**
4 Point Mounting, 30″ Depth, 100 lb Load Rating	**B9013-1930**
4 Point Mounting, 36″ Depth, 100 lb Load Rating	**B9013-1936**
19″ Keyboard Shelf (Fixed Front of Mounting Rail with Mouse Pad)	**B9014-1907**
19″ Drawer, Monitor and Keyboard Shelf	**B9015-1902**
19″ Sliding Rotating Keyboard Shelf	**B9015-1909**
19″ Center Mount Shelf Kit (2-shelves)	
21″ Depth, Aluminum, 100 lb Load Rating	**B9016-1921**
21″ Depth, Black, 100 lb Load Rating	**B9016-1921-3**
19″ Drawer, Utility, 4U, 16″ Depth	**B9017-0200**
Pivot Cable Retractor	**B9309-0100**
19″ Quick Disconnect Shelf	
6 mm Mounting Rails, 24″ Depth, 200 lb Load Rating	**B9010-1924-Q**
6 mm Mounting Rails, 30″ Depth, 200 lb Load Rating	**B9010-1930-Q**

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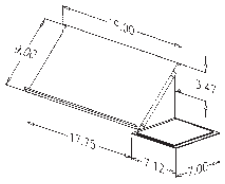
B9013-1936



B9016-1921



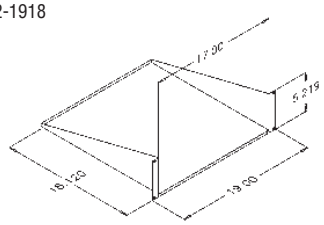
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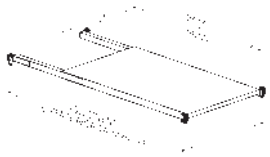
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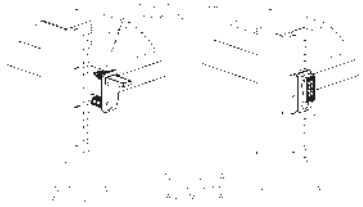


B9012-1918



B9010-1930-Q





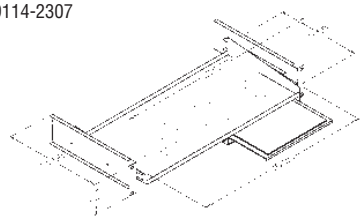
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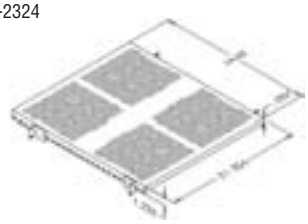
Modular Enclosure Options and Accessories

Enclosure Shelves *(continued)*

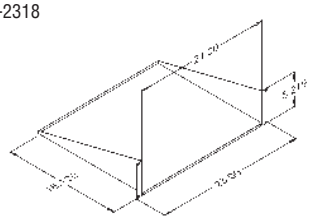
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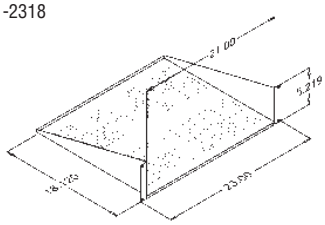
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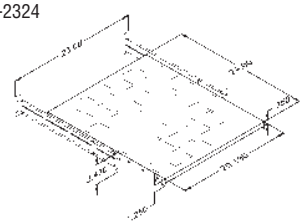
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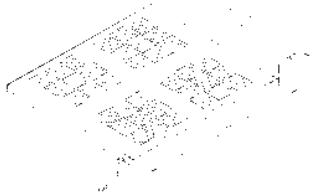
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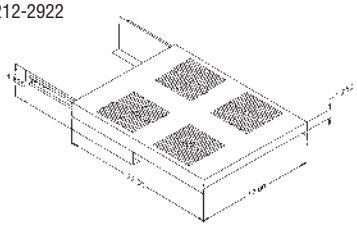
B9113-2324



B9210-2923



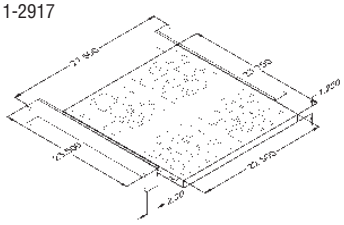
B9212-2922



Description	Belden Part Number
23″ Shelves	
23″ Heavy Duty Adjustable Shelf (Vented)	
4 Point Mounting, 180 lb Load Rating	**B9110-2324**
23″ Flush Mount Cantilevered Shelf (Vented)	
70 lb Load Rating	**B9111-2318**
23″ Flush Mount Cantilevered Shelf (Solid)	
70 lb Load Rating	**B9112-2318**
23″ Heavy Duty Sliding Adjustable Shelf (Vented)	
4 Point Mounting, 85 lb Load Rating	**B9113-2324**
23″ Sliding Keyboard Shelf with Mouse Pad	**B9114-2307**
Frame Shelves	
27.5″ Wide Side Mount Shelf (Vented)	
23.75″ Depth, 180 lb Load Rating	**B9210-2923**
23.75″ Depth, 90 lb Load Rating	**B9211-2917**
17″ Wide Bottom Mount Sliding Server Shelf (Vented)	
22″ Depth, 100 lb Load Rating	**B9212-2922**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

B9211-2917



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Modular Enclosure Options and Accessories

Anti-Tip, Grounding Bars, Mounting Hardware

BUS-ATD-0010





Enclosure Anti-Tip Device

The Data Standard, Data Slim, Data Deep and Ultra Deep Server Modular Enclosures are configured with an Anti-Tip Device which protects the enclosure from tipping when servers and shelves are extended.

Description	Belden Part Number
Anti-Tip Device for Ultra Deep Server	**BUS-ATD-0010-C**
Anti-Tip Device for Data Standard	**BST-ATD-0030-3**
Anti-Tip Device for Data Deep	**BDP-ATD-0200-3**
Anti-Tip Device for Data Slim	**BSL/BST-ATD-0300-3**

Grounding Bars

Copper grounding bars are available for mounting on any of the Enclosure types. Grounding bars are available for Vertical or Horizontal mounting.

Description	Belden Part Number
70″ Vertical Isolated Copper Ground Bar, Tapped 10-32	**B9714-0720**
10″ Horizontal Isolated Copper Ground Bar, Tapped 10-32	**B9714-0190**

B9714-0720



Enclosure Mounting Hardware

The Enclosure Mounting Hardware line includes a variety of bolts, screws and nuts for securing the enclosure.

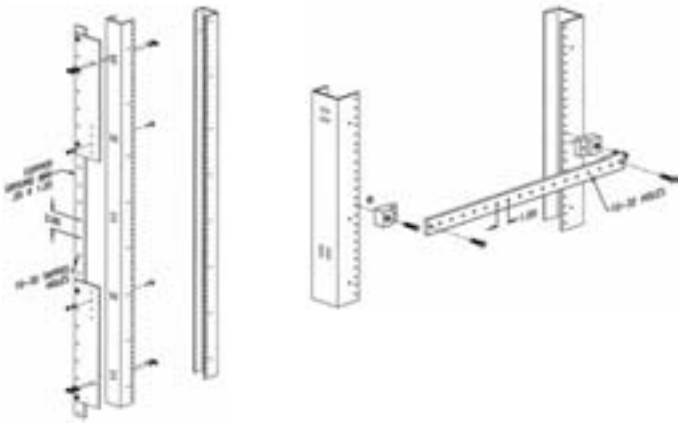
Description	Belden Part Number
4, 5/16-18 Hex Head Bolt; 4, 5/16-18 Hex Nut; 8-5/16 Flat Washer	**B8910-0100**
10-32 Mounting Screws, Package of 50	**B8911-0100**
M6 Mounting Cagenut, Package of 50	**B8913-0100**
M6 Mounting Screw, Package of 50	**B8914-0100**
10-32 Mounting Hardware, 10-32 Floating Cagenut, Package of 50	**B8915-0100**

B9714-0190



B8913-0100





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Modular Enclosure Options and Accessories

Mounting Rails

Mounting Rails
Demonstrated in Enclosure



BRL-3024-0100



BRL-3012-0200



BRL-3006-0300



Enclosure Mounting Rails

The Enclosure Mounting Rail line includes 19″ and 23″ rails which are fully adjustable to accommodate different mounting depths.

Description	Belden Part Number
Data Standard	
Adjustable Mounting Rails 19″ or 23″	
Tapped 10-32, 48″	**BST4819-23**
Tapped 10-32, 72″	**BST7219-23**
Tapped 10-32, 78″	**BST7819-23**
Tapped 10-32, 84″	**BST8419-23**
6 mm with Hardware, 84″	**BST8419-23SQ**
Data Slim	
Adjustable Mounting Rails 19″ or 23″	
Tapped 10-32, 72″	**BSL7219**
6 mm with Hardware, 72″	**BSL7219SQ-2**
Tapped 10-32, 78″	**BSL7819**
Tapped 10-32, 84″	**BSL8419**
Data Deep	
Adjustable Mounting Rails 19″ or 23″	
Tapped 10-32, 72″	**BDP7219-23**
6 mm with Hardware, 72″	**BDP7219-23SQ**
Tapped 10-32, 78″	**BDP7819-23**
Tapped 10-32, 84″	**BDP8419-23**

Enclosure Partial Rail Kits

The Enclosure Partial Rail Kit line includes 6U, 12U and 24U rails for increased mounting flexibility.

Description	Belden Part Number
19″ Partial Rail Kit (6U)	**BRL-3006-0300**
19″ Partial Rail Kit (12U)	**BRL-3012-0200**
19″ Partial Rail Kit (24U)	**BRL-3024-0100**

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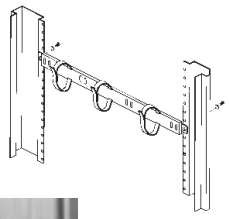
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Modular Enclosure Options and Accessories

Cable Management and Light Kits

B9713-0200





Horizontal: B9713-0200
Vertical: B9712-0100

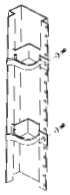
B9713-0201



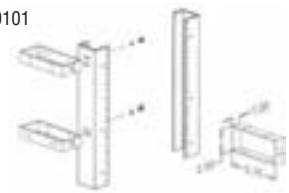
B9713-0202



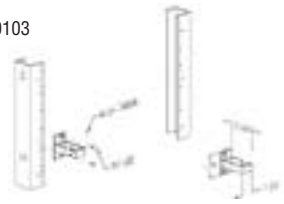
B9712-0100



B9712-0101



B9712-0103



B9712-0102



Front to Rear Cable Management

Front to Rear Cable Management makes routing of cable neat, keeps them secure and manages bend radius.

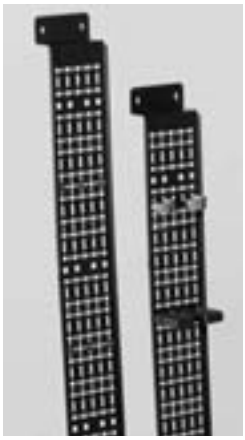
Description	Belden Part Number
Front to Rear Cable Management	
w/3 Velcro Straps	**B9713-0200**
for 30″ & 34″ deep Enclosure 1″ x 3″ finger stock	**B9713-0201**
for 36″ deep enclosure 1″ x 3″ finger stock	**B9713-0202**
Vertical Cable Management	
Corner Mount Vertical Cable Management Ring 3″ x 3″ w/Velcro Strap	**B9712-0100**
Side Mount Cable Management 2.5″ x 5.75″	**B9712-0101**
Front Mount Cable Management 1.5″x 3″	**B9712-0102**
1U Cable Manager 1″ wide x 2″ deep	**B9712-0103**
Mounting Rail Single M-Clip (XUSD)	**B9712-0106**
Mounting Rail Dual M-Clip (XUSD)	**B9712-0107**
Mounting Rail 84″ Lacing Panel black (Data Standard, Data Slim, Data Deep)	**B9712-0108**
78″ Lacing Panel black (Data Standard, Data Slim, Data Deep)	**B9712-0109**
78″ Lacing Panel black (Ultra Server, Ultra Deep Server)	**B9712-0109S**
Light Kits	
With dual adjustable 5 watt halogen lites & dimmer, UL Listed	**B9420-1905**
With single adjustable 5 watt halogen lite & dimmer, UL Listed	**B9420-1906**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

B9712-0106



B9712-0108, B9712-0109



B9712-0107



B9420-1905



B9420-1906



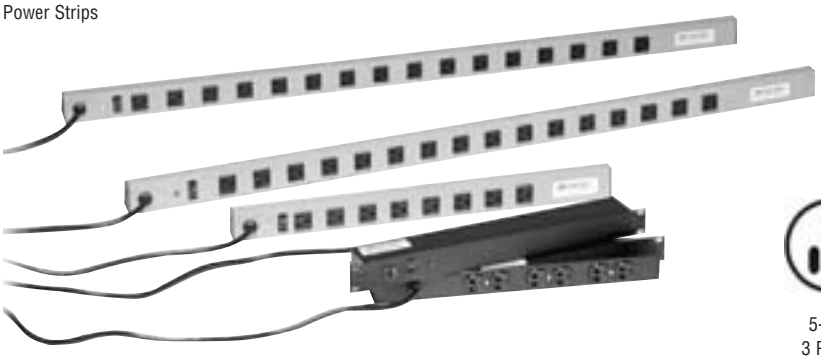
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Modular Enclosure Options and Accessories

Enclosure Power Strips

Power Strips





5-15P 3 Prong | L5-15P Locking | 5-20P | L5-20P Locking

Technical Specifications

Part Number	Number of Outlets	Amps	Plug Type	Protection		Switch	Outlet Spacing	Volts	Receptacle Type	Cord Length
				Surge	Circuit					
B9411-1602	16	15	5-15P 3 Prong	Yes	Yes	Yes	2.500	120	5-15R	15 ft
B9412-0801	8	15	5-15P 3 Prong	No	Yes	Yes	2.000	125	5-15R	15 ft
B9413-0601	6	15	5-15P 3 Prong	No	Yes	Yes	1.50	125	5-15R	15 ft
B9414-0602	6	15	5-15P 3 Prong	Yes	Yes	Yes	1.50	125	5-15R	15 ft
B9415-1601	10	20	L5-20P Locking	No	Yes	Yes	4.300	120	5-15R	15 ft
B9415-1602	16	20	L5-20P Locking	No	Yes	Yes	2.500	120	5-15R	15 ft
B9415-1603	16	20	5-20P	No	Yes	Yes	2.430	120	5-15R	15 ft
B9415-1606	6	20	L5-20P Locking	No	Yes	Yes	2.650	120	5-15R	15 ft
B9415-1607	10	15	L5-15P Locking	No	Yes	Yes	4.25	120	5-15R	15 ft
B9415-1608	16	20	L5-20P Locking	No	No	No	2.735	120	5-15R	15 ft
B9415-1610	16	20	5-20P 3 Prong	Yes	Yes	No	2.25	125	5-20R	15 ft
B9416-1001	10	20	L5-20P Locking	No	Yes	Yes		120	5-15R	15 ft

Description	Belden Part Number
4′ 16 Outlet Strip Surge Suppressor, 15′ Power Cord, UL Listed	**B9411-1602**
2′ 8 Outlet Strip, 15 Amp/15′ Power Cord, UL Listed	**B9412-0801**
19″ Rack Mount 6 Outlet Strip (Rear), 15 Amp/15′ Power Cord, UL Listed	**B9413-0601**
19″ Rack Mount 6 Outlet Strip (Rear) Surge, 15 Amp/15′ Power Cord, UL Listed	**B9414-0602**
4′ 10 Outlet Strip, 20 Amp/15′ Power Cord w/Twist Lock Plug, UL Listed	**B9415-1601**
4′ 16 Outlet Strip, 20 Amp/15′ Power Cord w/Twist Lock Plug, UL Listed	**B9415-1602**
4′ 16 Outlet Strip, 20 Amp/15′ Power Cord, UL Listed	**B9415-1603**
6 Outlet Strip, 20 Amp/15′ Power Cord w/Twist Lock Plug, UL Listed	**B9415-1606**
10 Outlet Strip, 15 Amp/15′ Power Cord w/Twist Lock Plug, UL Listed	**B9415-1607**
4′ 16 Outlet Strip, 20 Amp/15′ Power Cord	**B9415-1608**
4′ 16 Outlet Strip, 20 Amp Receptacle, Surge, CB, No Switch, 15′ Cord, UL Listed	**B9415-1610**
19″ Rack Mount 6 Outlet Front, 4 Outlet Rear, 20 Amp/15′ Cord, w/Twist Lock Plug	**B9416-1001**

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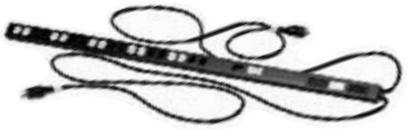
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Modular Enclosure Options and Accessories

Mission Critical Power Accessories

Mission Critical Power Accessory



Mission Critical Power Accessories

Slim-Line™ Low-Profile, Power Distribution, designed for high-density, mission critical server applications, the SL Series provides maximum power in a low profile chassis. Employing multiple configurations, the Easy-Read™ digital ammeter and clearly labeled circuits, SL Series assures easy management and monitoring for current requirements and future expansions.

- Datacenter grade receptacles
- 1.25″ low profile
- Easy-Read digital ammeter

Dual-circuit, Vertical Power Distribution, designed for high-density, mission critical server applications, the DBVD Series provides dual-source in one vertical, power distribution unit. Employing multiple configurations, the Easy-Read digital ammeter and clearly labeled circuits, DBVD assures easy management and monitoring for current requirements and future expansions.

- High-density, dual source
- Side-by-side outlet configuration
- Easy-Read digital ammeter
- Clearly labeled circuits

Technical Specifications

Part Number	Circuit Type	Volts	Amps	Unit Length	Plug Type	Cord Length	Outlet Type	Qty.	Power (Watts)	Est. Server Qty.			Ammeter
										300W	400W	500W	
B9418-0801	Single	120	20	24″	Straight	15′	5-15/20	8	1920	10	8	6	Yes
B9418-0802	Single	120	20	24″	L5-20	15′	5-15/20	8	1920	10	8	6	Yes
B9418-1201	Single	120	20	60″	L5-20	15′	5-15/20	12	1920	10	8	6	Yes
B9418-2401	Single	120	30	60″	L5-30	15′	5-15/20	24	2880	15	12	9	No
B9418-2402	Dual	120	2 x 20	60″	2 x L5-20	15′	5-15/20	2 x 12	2 x 1920	10	8	6	No
B9418-2403	Dual	120	2 x 20	60″	L5-20	15′	5-15/20	2 x 12	2 x 1920	10	8	6	Yes
B9418-2410	Single	120	30	60″	L5-30	15′	5-15/20	24	2880	15	12	9	Yes
B9418-4801	Dual	208	2 x 30	68″	2 x L6-30	10′	C-13	2 x 24	2 x 4992	24	21	17	Yes
B9418-7201	Dual	208 3 phase	2 x 20	68″	2 x L21-20	10′	C-12	2 x 36	2 x 5757	32	24	19	Yes

Description	Belden Part Number
24″ 8 Outlet 20 Amp Circuit, 120 Volt, Straight Plug, 15′ Power Cord, with Ammeter, UL Listed	**B9418-0801**
24″ 8 Outlet 20 Amp Circuit, 120 Volt, L-5 20 Plug, 15′ Power Cord, with Ammeter, UL Listed	**B9418-0802**
60″ 12 Outlet 20 Amp 120 Volt, L-5 20 Plug, 15′ Power Cord with Ammeter, UL Listed	**B9418-1201**
60″ 24 Outlet 30 Amp 120 Volt, L-5 30 Plug, 15′ Power Cord, UL Listed	**B9418-2401**
60″ Dual 12 Outlet, Dual 20 Amp Circuit, 120 Volt, Dual L-5 20 Plug, 15′ Power Cord, UL Listed	**B9418-2402**
60″ Dual 12 Outlet, Dual 20 Amp Circuit, 120 Volt, Single L-5 20 Plug, 15′ Power Cord, with Ammeter, UL Listed	**B9418-2403**
60″ 24 Outlet 30 Amp 120 Volt, L-5 30 Plug, 15′ Power Cord, with Ammeter, UL Listed	**B9418-2410**
68″ Dual 24 Outlet, Dual 30 Amp Circuit, Dual L-6 30 Plug, C-13 Outlets, 10′ Power Cord, with Ammeter, UL Listed	**B9418-4801**
68″ Dual 36 Outlet, Dual 20 Amp Circuit, Dual L-21 20 Plug, C-12 Outlets, 10′ Power Cord, with Ammeter, UL Listed	**B9418-7201**

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Modular Enclosure Options and Accessories

Climate Monitors and Controllers

B9318-0400



Climate Monitor

Designed specifically for internal computer cabinet installation, this low-cost self-contained unit continually monitors climate via an internally-generated web page or SNMP. Values are graphed to see trends.

Its small size permits mounting in cabinet corners or the cabinet "attic" area and eliminates the environment monitor from occupying a 1-U space.

All software is contained inside the unit. The user supplies an Internet connection and an IP address. Administration of the unit is accomplished via the web page. When user-defined thresholds are exceeded, alarms can be sent via e-mail or SNMP trap.

A full set of internal sensors are included:

- Temperature
- Humidity
- Air Flow
- Light
- Sound

A variety of optional remote sensors are easily added. Up to 16 remote sensors can be added using Category 3 telephone wire and RJ-11 connectors. Remote sensors include:

- Web Cam
- Door Sensors
- Water Sensor
- Remote Temperature Sensor
- City Power Monitor
- In Line Power Monitoring

Remote sensors allow the unit to monitor up to 16 cabinets hundreds of feet apart and show the status of air-conditioning outputs. There is one remote RJ-11 sensor receptacle on the unit. Simple splitters are used to expand to use all 16 sensors.

Software protocols include:

- Web (HTTP)
- SMTP/POP
- SNMP (full MIB)
- FTP (firmware upgrades)
- Graphing
- PDA display format
- WAP (cell phone display)
- XML
- Excel™

The web cam used is an IP-based Axis 205; it can be installed locally or remotely.
Firmware updates can be made by FTP file transfer which eliminates retuning the unit to the factory.

Description	Belden Part Number
Climate monitor (Temperature, heat, humidity, airflow, sound)	**B9318-0400**

B9318-0300



Electronic Fan Controller

- Remote temperature sensor with eight feet of cable allows mounting of controller in convenient location while precisely monitoring temperature at any point within the cabinet.
- Digital display shows actual temperature and programmed setpoint.
- Universal mounting bracket allows mounting to EIA rails or enclosure frame.
- Temperature range from -20˚F (-29˚C) to 140˚F (60˚C).

Description	Belden Part Number
Electronic Fan Controller	**B9318-0300**

B9318-0200



Thermostat Fan Controller

- Low cost mechanical controller with Internal Bi-Metal sensing element.
- Position controller inside cabinet where temperature is to be monitored.
- Universal mounting bracket allows mounting to EIA rails or enclosure frame.
- Temperature range from -10˚F (-23˚C) to 100˚F (38˚C).

Description	Belden Part Number
Thermostat Fan Controller	**B9318-0200**

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Wall Mount Enclosures and Accessories

Wall Mount Enclosures

BWM 4820-GD

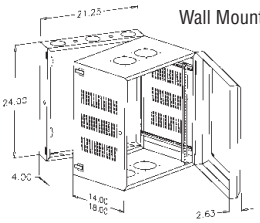


BWM 2406-SD



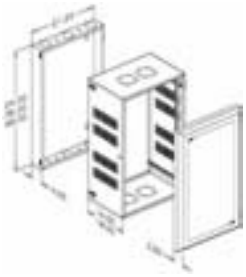
BWM 2420-SD





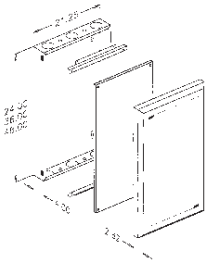
Wall Mount Assy. Swing-Out View
20″ Depth / 24″ Depth

Wall Mount Assy.
Rear Section
Mid Section
Front Door w/Glass

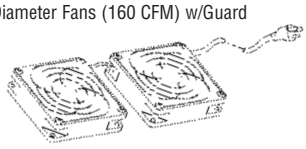


Wall Mount Assy. 4″ Depth
Rear Section
Plywood Back Board (Opt.)
Front Door w/Glass

6″ Depth



BWM-9312-1600 Fan Assembly
(2) 4″ Diameter Fans (160 CFM) w/Guard

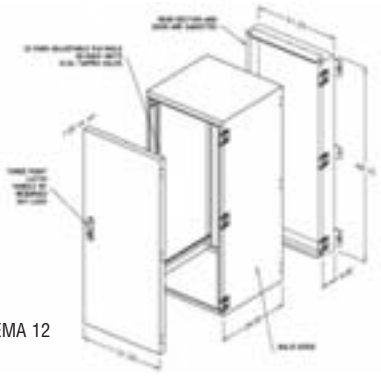


Wall Mount Enclosure

The Wall Mount Enclosure provides a secure and permanent location for a variety of components. Most units feature 19″ mounting rails and are available with either a glass door with lock or a steel door with lock and 1 pair of 10-32 tapped rails. A 48″ NEMA-12 model is also offered for harsh environments.

Description	Weight	Mounting	Belden Part Number
Wall Mount Enclosure			
24″ Wall Mount Enclosure 6″ Depth			
with Glass Door with Lock	40 lb	Back Board	**BWM-2406-GD-C**
with Steel Door with Lock	35 lb	Back Board	**BWM-2406-SD-C**
24″ Wall Mount Enclosure 20″ Depth			
with Glass Door with Lock	75 lb	12U	**BWM-2420-GD-C**
with Steel Door with Lock	70 lb	12U	**BWM-2420-SD-C**
24″ Wall Mount Enclosure 24″ Depth			
with Glass Door with Lock	80 lb	12U	**BWM-2424-GD-C**
with Steel Door with Lock	75 lb	12U	**BWM-2424-SD-C**
36″ Wall Mount Enclosure 6″ Depth			
with Glass Door with Lock	45 lb	Back Board	**BWM-3606-GD-C**
with Steel Door with Lock	45 lb	Back Board	**BWM-3606-SD-C**
36″ Wall Mount Enclosure 20″ Depth			
with Glass Door with Lock	90 lb	18U	**BWM-3620-GD-C**
with Steel Door with Lock	85 lb	18U	**BWM-3620-SD-C**
36″ Wall Mount Enclosure 24″ Depth			
with Glass Door with Lock	98 lb	18U	**BWM-3624-GD-C**
with Steel Door with Lock	95 lb	18U	**BWM-3624-SD-C**
48″ Wall Mount Enclosure 6″ Depth			
with Glass Door with Lock	75 lb	Back Board	**BWM-4806-GD-C**
with Steel Door with Lock	65 lb	Back Board	**BWM-4806-SD-C**
48″ Wall Mount Enclosure 20″ Depth			
with Glass Door with Lock	120 lb	25U	**BWM-4820-GD-C**
with Steel Door with Lock	110 lb	25U	**BWM-4820-SD-C**
48″ Wall Mount Enclosure 24″ Depth			
with Glass Door with Lock	135 lb	25U	**BWM-4824-GD-C**
with Steel Door with Lock	125 lb	25U	**BWM-4824-SD-C**
48″ NEMA 12 Wall Mount Enclosure 24″ Depth			
with Steel Door with Latch	205 lb	26U	**BWM-4830-SD-3S0001**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.



NEMA 12

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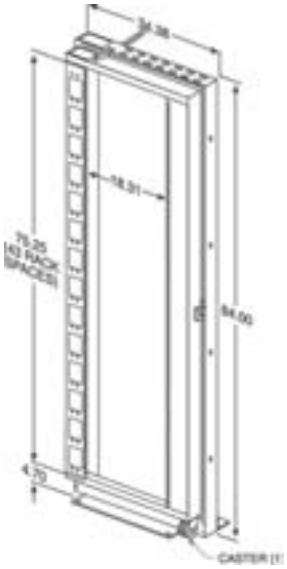
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Wall Mount Enclosures and Accessories

Accessories and Swing Racks

Optional Basket





Wall Mount Enclosure Accessories

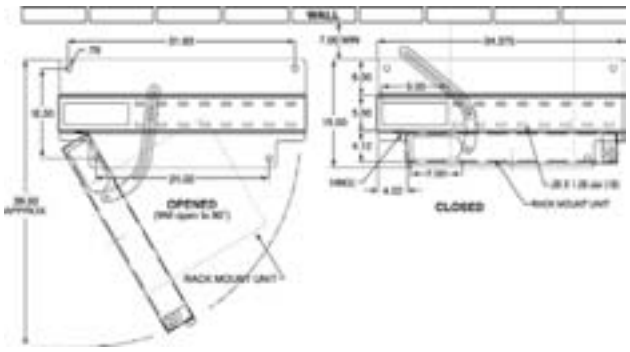
Description	Belden Part Number
Caster/Leveler Base	
Caster/Leveler Base, 20″ or 24″	**B8912-0200-C**
Back Board	
24″ Plywood Back Board (Black)	**BWM-2401**
36″ Plywood Back Board (Black)	**BWM-3601**
48″ Plywood Back Board (Black)	**BWM-4801**
Fan Assembly	
Fan Assembly (2) 4″ Diameter Fans (160 CFM) with Guard	**BWM-9312-1600**
Mounting Uprights	
19″ Mounting Uprights, 24″	**BWM-2419**
19″ Mounting Uprights, 36″	**BWM-3619**
19″ Mounting Uprights, 48″	**BWM-4819**

Swing Racks

The Swing Rack provides easy access to the rear of rack mounted equipment in a free-standing environment. It is ideal for applications where space is limited and rear access is essential.

Description	Weight	Mounting	Belden Part Number
84″ Swing Out Distribution Rack	179 lb	34U	**BSW-8419**
Power Strip Mounting Kit (Sold Separately)			**BSW-0100**
Top Mounting Wire Basket (24″ Long) (Sold Separately)			**BSW-0200**

Swing Racks



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BELDEN
SENDING ALL THE RIGHT SIGNALS



12 Open Frame Racks and Accessories

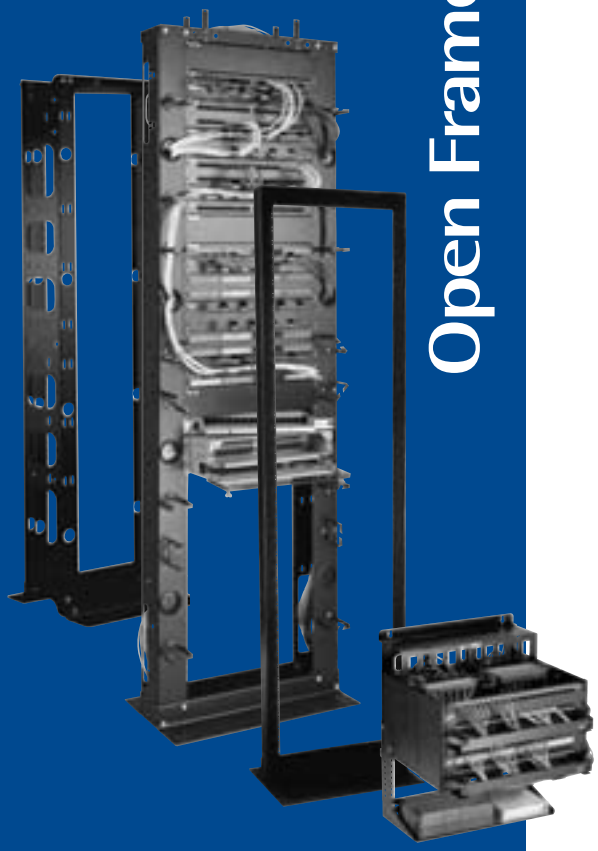


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Please refer to “Terms of Use of Master Catalog” on page 22.22

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Introduction

Belden: Resources Of a Higher Magnitude

Belden is the largest company of its kind, combining cable, connectivity, enclosures and many other product solutions for highly technical industries around the globe. As the exclusive occupant in this market position, Belden provides thousands of satisfied customers with over a billion dollars worth of trusted solutions every year, much of which supports the commercial networking sector. By combining our expertise in the design and manufacture of cable, connectivity, enclosures and related products, Belden now offers a product line of staggering magnitude, engineering triumphs and rich resources — worldwide.

Belden Open Frame Racks

The complete line of Belden Open Frame Racks are designed to meet the unique needs of data networks and other cabling systems. Whether it's the protection of sensitive equipment, the ability to mount equipment of varied sizes and depths, or the need to organize and neatly route installed cable, Belden has the solution you need. Belden provides you with single source convenience for all of your cable management requirements.

Enclosures and Racks

Choose from a variety of vertical enclosures, open frame racks and wall mount enclosures, all expertly engineered to optimize product quality and performance and manufactured in the United States for quick availability. Although standard configurations of the most popular enclosures are offered for fast delivery needs, all custom enclosures and racks have numerous mounting, cable and patch cord management options, along with a variety of accessories. This selection of Belden enclosures and racks will meet virtually any mounting, storage or protection requirement for your application.

Cable Ties

Belden cable ties are available in a complete variety of sizes for varying load capacities and are available in standard nylon or weather-resistant nylon.

Single Sourcing Convenience

The Cable Management product families in this catalog are offered to cabling professionals for ultimate convenience in single sourcing. As a Belden customer, you also have the assurance of total dependability by working with a market leader and a trusted partner who has a vested interest in optimizing your operations and investments. We want to make sure you not only get the products you need with ease, but they also perform reliably.

Cable Ties

Type	Tensile/Shear Strength	Length	Weather Resistant
Miniature	18 lbs.	4″ or 8″	
Intermediate	40 lbs.	5 1/2″ to 14 1/2″	●
Standard	50 lbs.	8″ to 17 3/4″	●
Heavy Duty	120 lbs.	15″	
Heavy Duty	175 lbs.	17 3/4″ to 48″	
Velcro	23 lbs./sq.in	8″ or 12″	

Open Frame Racks

Type	Rack Space	Heights (inches)	Panel Mount (inches)	Width (inches)	Depth (inches)
Swing Rack	43U	84	19	34, 38	15
Distribution Rack	25, 39, 44U	48, 72, 84	19, 23	21.2, 25.2	21
Cable Management Rack	44U	84″	19	23.75, 25.75	15, 22
Copper Rack Kit	44U	84	19	30.75	14
Fiber Rack Kit	44U	84	19, 23	25, 29	14
Wall Mount Rack — Swing Out	19, 25U	36, 48	19	20	12 to 18
Wall Mount Rack — Hinged	2U, 4U, 6U	3.5, 7, 11	19	19, 19.5	4, 9.5

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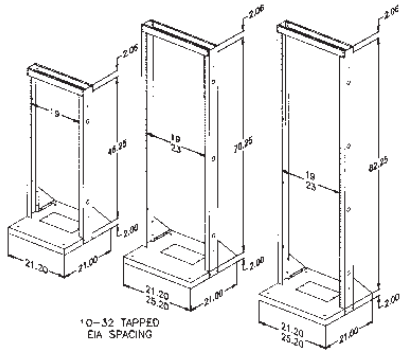
Open Frame Rack Kits & Accessories

Distribution Racks, Vertical Cable Managers

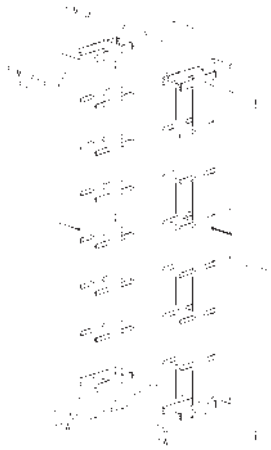
AX101174 Rack Kit



BDR-Style Distribution Racks



BDR-Style Vertical Cable Managers



Open Frame Rack Kits

Rack Kits are offered for both copper and fiber cabling. Welded and knock-down rack assemblies are available for copper; knock-down rack kits are available for fiber. All units feature one rack with either one or two vertical and two horizontal channels.

Description	Mounting	Weight Lbs.	Weight Kg	Belden Part Number
Copper Rack Kit				
Welded Rack Assembly — Black, 19″ x 84″ (7′) (One Rack w/ 2 Vertical & 2 Horizontal Channels)	44U	145	66	**AX101174**
Knock-Down Rack Assembly — Black, 19″ x 84″ (7′) (One Rack w/ 2 Vertical & 2 Horizontal Channels)	44U	145	66	**AX101175**
Fiber Rack Kit				
Knock-Down Rack Assembly — Black, 19″ x 84″ (7′) (One Rack with 1 Vertical & 2 Horizontal Channels)	44U	106	49	**AX101176**
Knock-Down Rack Assembly — Gray, 23″ x 84″ (7′) (One Rack with 1 Vertical & 2 Horizontal Channels)	44U	113	52	**AX101177**
Floor Mount Rack				
Knock-Down Rack Assembly — Black, 19″ x 84″ (7′) (w/ Two Horizontal Channels)	44U	65	30	**AX101178**
Knock-Down Rack Assembly — Gray, 19″ x 84″ (7′) (w/ Two Horizontal Channels)	44U	65	30	**AX101254**
Knock-Down Rack Assembly — Black, 23″ x 84″ (7′) (w/ Two Horizontal Channels)	44U	70	32	**AX100931**
Knock-Down Rack Assembly — Gray, 23″ x 84″ (7′) (w/ Two Horizontal Channels)	44U	70	32	**AX100930**
Welded Rack Assembly — Black, 19″ x 84″ (7′) (w/ Two Horizontal Channels)	44U	65	30	**AX101179**

Distribution Racks

The Distribution Rack features 19″ or 23″ mounting rails for attaching a variety of rack mounted equipment. 48″, 72″ and 84″ high models are included in the line.

Description	Mounting	Weight Lbs.	Weight Kg	Belden Part Number
48″ Distribution Rack, 19″ Mounting Rails	25U	34	15	**BDR-4819**
72″ Distribution Rack, 19″ Mounting Rails	39U	43	20	**BDR-7219**
84″ Distribution Rack, 19″ Mounting Rails	39U	50	23	**BDR-8419**
84″ Distribution Rack, 19″ Mounting Rails, 4″ Channel with Angle Base,12-24 EIA Spacing	45U	60	27	**BDR-8419-4**
72″ Distribution Rack, 23″ Mounting Rails	39U	45	20	**BDR-7223**
84″ Distribution Rack, 23″ Mounting Rails	45U	52	24	**BDR-8423**
Caster Kit for BDR Racks				**B8912-0100**

Vertical Cable Managers

The Vertical Cable Managers are used to manage patch cords in front and cables in the back. Available in 72″ and 84″ heights, the units are available with removable side panels and doors. They can be used with Distribution Racks (BDR-Style) and Rack Kit.

Description	Belden Part Number
72″ Vertical Cable Manager	**BDR-7201**
84″ Vertical Cable Manager	**BDR-8401**
84″ Vertical Cable Manager, Double Sided with Cover	**BDR-8403**

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Open Frame Rack Kits & Accessories

Vertical and Horizontal Cable Management Channel, Cable Management Racks & Server Racks

AX101181 Horizontal Cable Management Channel



AX101180 Vertical Cable Management Channel



AX101371 Multi-Rack Attachment Spacer

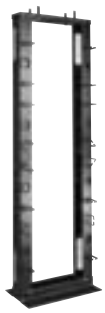


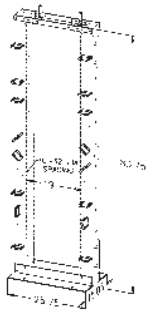
Vertical Cable Management Channel

Vertical Cable Management Channels are offered for both copper and fiber cabling. Available in heights of 84″, the channels make cable organization quick and easy, with Swing Out/Removable doors.

Description	Weight		Belden Part Number
	Lbs.	Kg	
Copper			
Knock-Down Assembly — Black, 5″ x 84″ (7′)	40	18	**AX101180**
Fiber			
Knock-Down Assembly — Gray, 5″ x 84″	35	16	**AX100932**
Knock-Down Assembly — Black, 5″ X 84″	35	16	**AX100933**
Multi-Rack Attachment (Spacer) Kit Use between Two Fiber Vertical Managers (AX100932-933)			**AX101371**

BCR-8419 84″ Cable Management Rack





Horizontal Cable Management Channel

Horizontal Cable Management Channels are available in widths of 19″ and 23″. The channels make cable organization quick and easy.

Description	Weight		Belden Part Number
	Lbs.	Kg	
19″ Horizontal Cable Management Channel, Black	6	3	**AX101181**
19″ Horizontal Cable Management Channel, Gray	6	3	**AX101182**
23″ Horizontal Cable Management Channel, Black	8	4	**AX101184**
23″ Horizontal Cable Management Channel, Gray	8	4	**AX101183**

BCR-8419-10 84″ Cable Management Rack w/ 10″ Channel



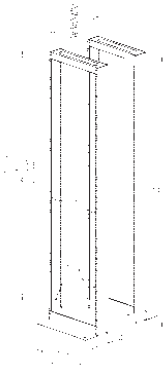


Cable Management Rack

The Cable Management Racks are designed for 19″ rack-mount equipment and are 84″ high. Model BCR-8419-10 features a channel that can be adjusted up to 10″ deep.

Description	Mounting	Weight		Belden Part Number
		Lbs.	Kg	
84″ Cable Management Rack, 19″ Mounting Rails	45	53	24	**BCR-8419**
84″ Cable Management Rack, 19″ Mounting Rails, 10″ Channel with Cable Management	45	60	27	**BCR-8419-10**

BSR-8419 Server Rack



Server Rack

Server Racks are designed for either 19″ or 23″ rack-mount equipment and are 84″ high. The Server Rack is available in depths of 24″, 28″ 32″ and 36″ to accommodate different equipment needs.

Description	Belden Part Number
84″ Four Post Server Rack, 19″ Mounting, Depth 24″	**BSR-8419-24**
84″ Four Post Server Rack, 19″ Mounting, Depth 28″	**BSR-8419-28**
84″ Four Post Server Rack, 19″ Mounting, Depth 32″	**BSR-8419-32**
84″ Four Post Server Rack, 19″ Mounting, Depth 36″	**BSR-8419-36**
84″ Four Post Server Rack, 23″ Mounting, Depth 24″	**BSR-8423-24**
84″ Four Post Server Rack, 23″ Mounting, Depth 28″	**BSR-8423-28**
84″ Four Post Server Rack, 23″ Mounting, Depth 32″	**BSR-8423-32**
84″ Four Post Server Rack, 23″ Mounting, Depth 36″	**BSR-8423-36**

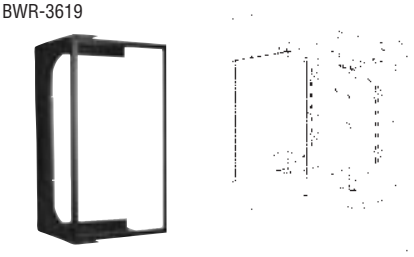
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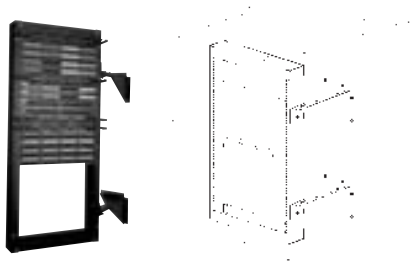
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Wall Mount Racks & Accessories

BWR-3619



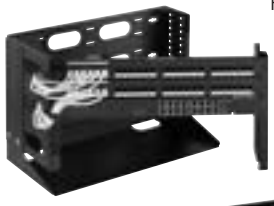
BWR-4819 — Swing out Distribution Racks
19″ x 48″ Depth Range 11.5″ to 15.5″



AX100785 Wall Mount Bracket, 2U



BWR-1219 — 12″ Wall Mont Rack
Hinged mounting
for easy access



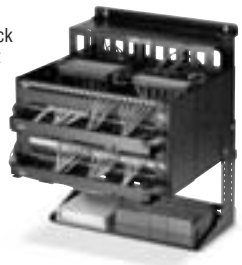
Adjustable shelf 2″ - 6″



AX102514 — 4U Wall Mount Bracket w/2U Swivel



BER-6X6 —
6U Wall Mount Rack
w/6U and 6U Front

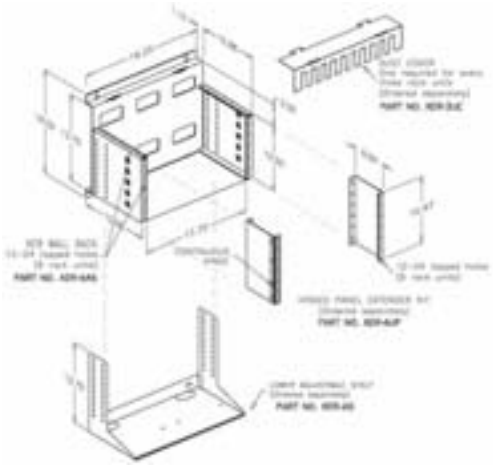


Wall Mount Racks

Wall Mount Racks are available in two styles: hinged and swing out. The hinged rack is 12″ in height and features an adjustable lower shelf. The swing out rack is available in heights of 36″ and 48″ with 19″ mounting rails. 2U, 4U and 6U Wall Mount Racks are also offered.

Description	Mounting	Weight		Belden Part Number
		Lbs.	Kg	
Swing Out Rack				
36″ Wall Mount Swing Out Rack, 19″ Mounting Rails x 12″ Fixed Depth	18U	30	14	**BWR-3619-12**
36″ Wall Mount Swing Out Rack, 19″ Mounting Rails x 18″ Depth	18U	30	14	**BWR-3619-18**
48″ Wall Mount Swing Out Rack, 19″ Mounting Rails, 11.5–15.5″ Adjustable Depth	25U	39	18	**BWR-4819**
48″ Wall Mount Swing Out Rack, 19″ Mounting Rails x 12″ Fixed Depth	25U	39	18	**BWR-4819-12**
48″ Mount Swing Out Rack, 19″ Mounting Rails x 18″ Depth	25U	39	18	**BWR-4819-18**
Hinged Rack				
12″ Wall Mount Rack, Hinged 19″ Mounting Rails x 9″ Fixed Depth	6U	26	12	**BWR-1219**
Wall Mount Bracket				
2U Wall Mount Bracket, Black	2U	4	2	**AX100785**
4U Wall Mount Bracket, Black	4U	8	4	**AX100786**
4U Wall Mount Bracket w/ 2U Swivel				**AX102514**
6U Wall Mount Rack				
6U Wall Mount Rack with 6U Top and 6U Front Rack Space, Tapped 12-24 EIA	6″	17	8	**BER-6X6**
Bottom Accessory Shelf				**BER-AS**
Front Mounted Swing-out Patch Panel Kit, 6U				**BER-6UP**
Single, 3U Space Top Dust Cover				**BER-3UC**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.



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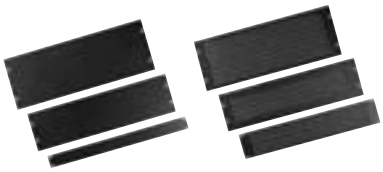
Open Frame Rack Accessories & Cable/Cord Management Units

Extender Brackets, Filler Panels, Patch Cord Organizers

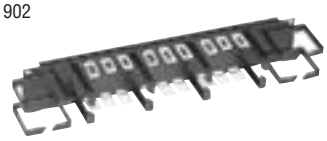
Rack Extenders



19″ Filler Panels



B9511-1902



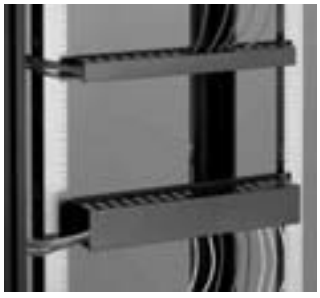
B9510-1901



B9512-1901



Top: B9512-1902
Bottom: B9512-1902



Open Frame Rack Extender Brackets

The Open Frame Rack Extender Brackets are used to extend a 19″ Panel/Equipment Mounting for 23″.

Description	Belden Part Number
1U 23″ EIA To 19″ EIA Extender Bracket	**B9810-0100**
2U 23″ EIA To 19″ EIA Extender Bracket	**B9811-0200**
3U 23″ EIA To 19″ EIA Extender Bracket	**B9812-0300**
4U 23″ EIA To 19″ EIA Extender Bracket	**B9813-0400**

Filler Panels

Filler Panels are available in solid or vented for improved air flow.

Description	Belden Part Number
1U 19″ Solid Filler Panel, Gray	**A0644497**
2U 19″ Solid Filler Panel, Gray	**A0644499**
1U 19″ Solid Filler Panel, Black	**B9910-0100**
2U 19″ Solid Filler Panel, Black	**B9911-0200**
3U 19″ Solid Filler Panel, Black	**B9912-0300**
4U 19″ Solid Filler Panel, Black	**B9913-0400**
2U 19″ Vented Filler Panel, Black	**B9914-0200**
3U 19″ Vented Filler Panel, Black	**B9915-0300**
4U 19″ Vented Filler Panel, Black	**B9916-0400**

Patch Cord Organizers

The Patch Cord Organizers keep wires and cable under control.
Among the many features of the Patch Cord Organizers are:

- Horizontal / Vertical Patch Cord Management
- Front / Rear Management
- Removable Covers
- Bend Radius Control

Description	Belden Part Number
1U 19″ Cable Organizer	**B9510-1901**
2U 19″ Cable Organizer with Saddle Rings	**B9511-1902**
1U 19″ Rack Mount Cable Organizer with Finger Stock and Cover (1.5″ x 2″)	**B9512-1901**
2U 19″ Rack Mount Cable Organizer with Finger Stock and Cover (3″ x 3″)	**B9512-1902**
2U 19″ Cable Organizer with Finger Stock and Cover Front and Rear	**B9512-1902-FR**
2U 19″ Cable Organizer with Quick Touch (2″ X 3″)	**B9513-1902**
1U 19″ Cable Organizer with Radius (Waterfall)	**B9514-1901**
1U 23″ Cable Organizer	**B9610-2301**
2U 23″ Cable Organizer with Saddle Rings	**B9611-2302**

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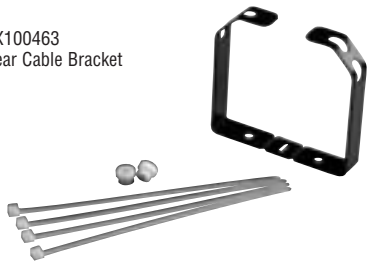
Open Frame Rack Accessories & Cable/Cord Management Units

Ring Panels, Organizer Trays, Brackets & Patch Cord Channel

AX100249 Organizer Tray, 3U



AX100463
Rear Cable Bracket



AX101173 Cable Tie Bar



AX100789 Cable Support Bracket



AX100793 Patch Cord Organizer Channel



AO396695 Organizer Ring Panel, 2U



AO644488 Organizer Panel, 1U



Open Frame Rack Cable and Patch Cord Management

The Open Frame Rack Cable and Patch Cord Management accessories can be used with patch panels in open frame racks for distribution cable and patch cord organization, routing and protection. They allow easier cord access and simplify moves, additions and changes.

Description	Mounting	Belden Part Number
Organizer Ring Panel, Gray	2U	**A0396695**
Organizer Ring Panel, Black	2U	**A0403977**
Organizer Panel, Gray	1U	**A0644488**
Organizer Panel, Black	1U	**A0644489**
Organizer Panel, Gray	2U	**A0644490**
Organizer Panel, Black	2U	**A0644492**
Organizer Tray, Gray	3U	**AX100248**
Organizer Tray, Black	3U	**AX100249**
Rear Cable Bracket, Gray		**AX100462**
Rear Cable Bracket, Black		**AX100463**
Cable Support Bracket, Gray	0U	**AX100788**
Cable Support Bracket, Black	0U	**AX100789**
Patch Cord Organizer Channel, Gray	1U	**AX100792**
Patch Cord Organizer Channel, Black	1U	**AX100793**
Patch Cord Organizer Channel, Gray	2U	**AX100794**
Patch Cord Organizer Channel, Black	2U	**AX100795**
Patch Cord Organizer Channel, Gray	4U	**AX100796**
Patch Cord Organizer Channel, Black	4U	**AX100797**
Cable Tie Bar, Black	0U	**AX101173**

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Cable Ties

Miniature, Intermediate, Standard & Heavy-Duty

CTM4018N
Cable Ties



CTM4018B
Cable Ties



Cable Ties

The Cable Ties line features miniature, intermediate, standard and heavy duty cable ties. They are available in tensile strengths ranging from 18 to 175 lbs. and are manufactured from various grades of nylon including weather-resistant nylon for use in sunshine/outdoor applications. They are offered in lengths from 4″ to 48″. Color: Natural (indoor), Black (outdoor). Velcro Cable Ties are also available.

Description	Length		Width		Loop Tensile Strength		Max. Bundled Diameter		Belden Part No.
	in.	mm	in.	mm	Lbs.	N	in.	mm	
Miniature 18 Lbs Tensile Strength									
Nylon Cable Tie, 100 Pcs, Natural, 4″	3.9	100	0.098	2.5	18	80	1.0	25	**CTM4018N**
Nylon Cable Tie, 100 Pcs, Natural, 5.5″	5.6	142	0.098	2.5	18	80	1.4	35	**CTM5P18N**
Nylon Cable Tie, 100 Pcs, Natural, 8″	8.0	203	0.098	2.5	18	80	2.2	55	**CTM8018N**
Intermediate 40 Lbs Tensile Strength									
Nylon Cable Tie, 100 Pcs, Natural, 5.5″	5.6	142	0.125	3.2	40	178	1.4	35	**CTI5P40N**
Nylon Cable Tie, 100 Pcs, Natural, 8″	8.0	203	0.141	3.6	40	178	2.2	55	**CTI8040N**
Nylon Cable Tie, 100 Pcs, Natural, 11″	11.5	292	0.141	3.6	40	178	3.3	85	**CTI11P40N**
Nylon Cable Tie, 100 Pcs, Natural, 14.5″	14.5	368	0.141	3.6	40	178	4.0	103	**CTI14P40N**
Weather Resistant Nylon Cable Tie, 100 Pcs, Black, 5.5″	5.6	142	0.125	3.2	40	178	1.4	35	**CTI5P40BW**
Weather Resistant Nylon Cable Tie, 100 Pcs, Black, 8″	8.0	203	0.141	3.6	40	178	2.2	55	**CTI8040BW**
Weather Resistant Nylon Cable Tie, 100 Pcs, Black, 11.5″	11.5	292	0.141	3.6	40	178	3.3	85	**CTI11P40BW**
Weather Resistant Nylon Cable Tie, 100 Pcs, Black, 14.5″	14.5	368	0.141	3.6	40	178	4.0	103	**CTI14P40BW**
Standard 50 Lbs Tensile Strength									
Nylon Cable Tie, 100 Pcs, Natural, 8″	8.0	203	0.180	4.6	50	222	2.2	55	**CTS8050N**
Nylon Cable Tie, 100 Pcs, Natural, 11″	11.0	280	0.188	4.8	50	222	3.2	81	**CTS1150N**
Nylon Cable Tie, 100 Pcs, Natural, 14.5″	14.5	368	0.188	4.8	50	222	4.0	103	**CTS14P50N**
Nylon Cable Tie, 100 Pcs, Natural, 17.75″	17.7	450	0.188	4.8	50	222	5.1	131	**CTS17P50N**
Weather Resistant Nylon Cable Tie, 100 Pcs, Black, 8″	8.0	203	0.180	4.6	50	222	2.2	55	**CTS8050BW**
Weather Resistant Nylon Cable Tie, 100 Pcs, Black, 11.5″	11.0	280	0.188	4.8	50	222	3.2	81	**CTS1150BW**
Weather Resistant Nylon Cable Tie, 100 Pcs, Black, 14.5″	14.5	368	0.188	4.8	50	222	4.0	103	**CTS14P50BW**
Weather Resistant Nylon Cable Tie, 100 Pcs, Black, 17.75″	17.7	450	0.188	4.8	50	222	5.1	131	**CTS17P50BW**
Heavy Duty 120 Lbs Tensile Strength									
Nylon Cable Tie, 100 Pcs, Natural, 15″	15.0	380	0.298	7.6	120	533	4.3	111	**CTH15120N**

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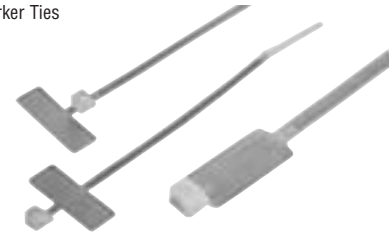
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Cable Ties

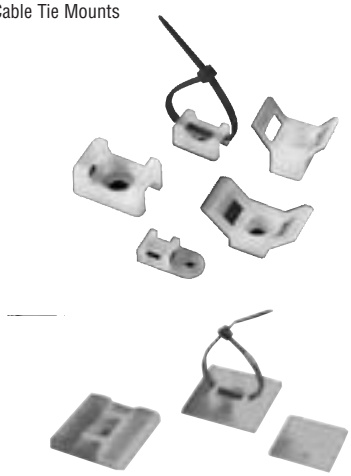
Marker Ties, Cable Tie Mounts

Marker Ties



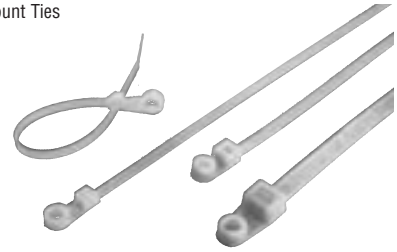
Description	Length		Width		Loop Tensile Strength		Max. Bundled Diameter		Belden Part No.
	in.	mm	in.	mm	Lbs.	N	in.	mm	
Heavy Duty Nylon Cable Tie (175 Lbs Tensile Strength)									
100 pcs, Natural, 17.75″	17.7	450	0.313	8.0	175	778	5.2	134	**CTH17P175N**
100 pcs, Natural, 21.7″	21.7	550	0.313	8.0	175	778	6.5	167	**CTH21P175N**
100 pcs, Natural, 36″	36.0	914	0.352	9.0	175	778	10.6	271	**CTH36P175N**
100 pcs, Natural, 48″	48.0	1219	0.352	9.0	175	778	15.0	382	**CTH48P175N**
Mount Ties									
100 pcs, Natural, 40 lb, 6″	6.7	171	0.145	3.7	40	178	1.6	40	**CTI6040NM**
100 pcs, Natural, 50 lb, 11.75″	11.8	300	0.188	4.8	50	222	3.3	85	**CTS11P50NM**
100 pcs, Natural, 50 lb, 14.5″	14.6	370	0.188	4.8	50	222	4.0	103	**CTS14P50NM**

Cable Tie Mounts



Description	Length		Width		Loop Tensile Strength		Max. Bundled Diameter		Marking Pad		Belden Part No.
	in.	mm	in.	mm	Lbs.	N	in.	mm	in.	mm	
Marker Ties (18 Lbs Tensile Strength)											
100 pcs, Natural, 4″	3.9	100	0.098	2.5	18	80	1.0	25	0.98 x 0.31	25 x 8	**CTM4018NMK**
100 pcs, Natural, 4.25″	4.3	110	0.098	2.5	18	80	1.0	25	0.98 x 0.32	26 x 8	**CTM4P18NMK**
100 pcs, Natural, 5″	5.1	130	0.098	2.5	18	80	1.0	25	1.10 x 0.79	28 x 20	**CTM5018NMK**
100 pcs, Natural, 8″	7.9	200	0.098	2.5	18	80	2.0	50	1.18 x 0.59	30 x 15	**CTM8018NMK**
Marker Ties (50 Lbs Tensile Strength)											
100 pcs, Natural, 8″	7.9	200	0.180	4.6	50	222	2.0	50	1.10 x 0.51	28 x 13	**CTS8050NMK**
100 pcs, Natural, 10.5″	10.6	270	0.180	4.6	50	222	3.0	75	1.10 x 0.51	28 x 13	**CTS10P50MNK**

Mount Ties



Description	Length		Width		Mounting Method	Belden Part No.
	in.	mm	in.	mm		
Cable Tie Mounts						
Cable Tie Mount S.A. M, 100 per bag	0.49	12.5	0.49	12.5	Self Adhesive	**TM100S4**
Cable Tie Mount S.A. M-I, 100 per bag	0.75	19.0	0.74	19.0	#4 M2.5 Screw + Self Adhesive	**TM101SS2**
Cable Tie Mount S.A. M-I-S, 100 per bag	1.10	28.0	1.10	28.0	#4 M2.5 Screw + Self Adhesive	**TM102**
Cable Tie Mount Sc. M-I, 100 per bag	0.50	12.8	0.27	7.0	#4 M2.5 Screw	**TM1**
Cable Tie Mount Sc. I-S-HD, 100 per bag	0.91	23.0	0.63	16.0	1/4 M6 Screw	**TM2**
Cable Tie Mount Sc. I-S-HD, 100 per bag	1.18	30.0	0.58	14.7	#10 M5 Screw	**TM4**

Cable mounts compatible with following cable tie cross section.

S.A. = Self Adhesive
Sc. = Screw on type

M = Miniature
I = Intermediate
S = Standard
HD = Heavy Duty

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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Cable Ties

Velcro Ties, Saddles, Saddle Ties

AX100781
Velcro Saddle



AX102512
Saddle Tie



AX102516
12″ Fiber Optic Cable Manager



Description	Belden Part Number
Velcro Cable Ties	
Velcro Cable Ties, 25 per Roll, 8″	**AX100783**
Velcro Cable Ties, 25 per Roll, 12″	**AX100784**
Velcro Saddle, 25 pcs	**AX100781**
Velcro Saddle Kit with #8 Wood Screw, 10 pcs	**AX102512**
Velcro Saddle Kit with 10/32 Rack Screw, 10 pcs	**AX102513**
15′ Roll x 5/8″ Polywrap, Cut to length as required	**AX102515**
12″ Fiber Optic Cable Manager	**AX102516**
24″ Fiber Optic Cable Manager	**AX102517**

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BELDEN
SENDING ALL THE RIGHT SIGNALS



13 Surface Raceway Systems

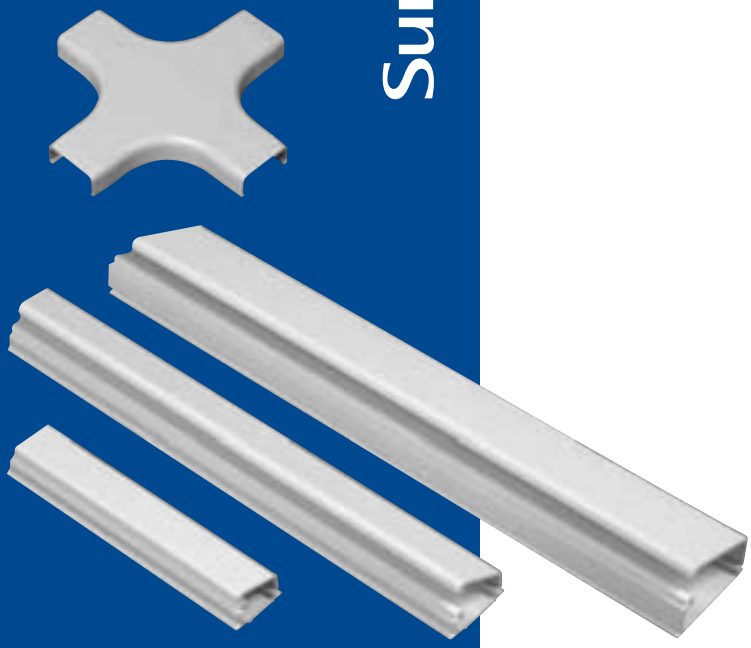


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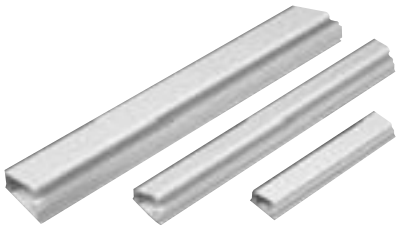
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One-Piece Latching Raceway

BFT-Style Surface Raceway Systems



Surface Raceway System

The Surface Raceway System is a functional, affordable, attractive solution for wire enclosure applications in commercial, industrial and residential environments. The product line includes extruded raceways with pre-applied adhesive backings, fittings, and Adapter Boxes.

- One piece design features patented hinge (Lid can be opened in any mounting position.)
- Parts are made of a strong, durable, lightweight, UL 94-VO compliant PVC
- UL 5A specification for 600 volt applications
- One inch minimum bend radius accessories available for Category 5e, 6 and fiber optic installations
- All products are fully paintable

Available in three sizes:

- 3/4″ x 1/2″ (Model No. 03SR)
- 1″ x 1/2″ (Model No. 05SR)
- 1-1/2″ x 3/4″ (Model No. 09SR)



Description	Dimensions (mm)				Belden Part Number
	A	B	C	Tape Width	
One-Piece Latching Raceway					
03SR White, 3/4″ x 1/2″ 8 ft, 20 pcs	0.760″ (19.3)	0.505″ (12.8)	0.050″ (1.27)	0.500″ (12.7)	**BFT-03SRW8**
05SR White, 1″ x 1/2″ 8 ft, 20 pcs	1.010″ (25.7)	0.505″ (12.8)	0.050″ (1.27)	0.750″ (19.1)	**BFT-05SRW8**
09SR White, 1-1/2″ x 3/4″ 8 ft, 20 pcs	1.500″ (38.1)	0.755″ (19.2)	0.050″ (1.27)	1.000″ (25.4)	**BFT-09SRW8**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

Area of Raceway

Model No.	Sq. In.	mm²
03SR	0.259	167.10
05SR	0.488	314.84
09SR	0.827	533.55

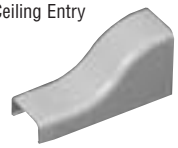
See chart on page 13.4 for Raceway fill capacities.

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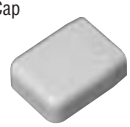
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Accessories & Adapter Boxes

BFT-CE03W Ceiling Entry



BFT-EC03W End Cap



BFT-FO03W High Radius Elbow



BFT-9003W Flat Elbow



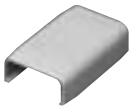
BFT-IN30W Inside Corner



BFT-OC03W Outside Corner



BFT-SC03W Splice Cover



BFT-3T03W 3-Way Tee



BFT-4T03W 4-Way Tee



AX102610 MediaFlex Double Gang Adapter Box



Surface Raceway System Accessories

A wide variety of accessories are available for the Surface Raceway System including:

- Ceiling Entries
- End Caps (End cap doubles as reducer to all three raceway sizes)
- High radius elbows
- Flat Elbows
- Inside Corners
- Splice Covers
- Outside Corners
- 3-Way and 4-Way Tees

Description	Belden Part Number		
	03SR	05SR	09SR
Surface Raceway Accessories			
Ceiling Entry, White, 10 pcs	BFT-CE03W	BFT-CE05W	BFT-CE09W
Splice Cover, White, 10 pcs	BFT-SC03W	BFT-SC05W	BFT-SC09W
End Cap, White, 10 pcs	BFT-EC03W	BFT-EC05W	BFT-EC09W
3-Way Tee, White, 10 pcs	BFT-3T03W	BFT-3T05W	BFT-3T09W
Flat 90 Elbow, White, 10 pcs	BFT-9003W	BFT-9005W	BFT-9009W
Inside Corner, White, 10 pcs	BFT-IN03W	BFT-IN05W	BFT-IN09W
Outside Corner, White, 10 pcs	BFT-OC03W	BFT-OC05W	BFT-OC09W
4-Way Tee, White, 10 pcs	BFT-4T03W	BFT-4T05W	BFT-4T09W
High Radius Elbow, White, 10 pcs	BFT-FO03W	BFT-FO05W	BFT-FO09W

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

Surface Raceway System Adapter Boxes

MediaFlex Surface Adapter Boxes are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets. MediaFlex Surface Adapter Boxes are designed to work with Belden surface raceway systems. The MediaFlex Surface Adapter Boxes are available in Single and Double Gang configuration.

- Good depth allow more room for cable management and bend radius
- Comes with mounting plate for added installation flexibility
- No special tools required, therefore reduces installation time
- Sturdy design for excellent durability and network protection
- Modern unique aesthetic design

Description	Belden Part Number
Adapter Boxes	
MediaFlex Single Gang Adapter Box, Standard, White	AX102611
MediaFlex Double Gang Adapter Box, Standard, White	AX102610

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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Technical Information

Raceway Fill Capacity Chart

Wire Type	Wire Diameter		Wire Area		Number of Cables per Raceway		
	Inch	mm	Sq. In.	mm²	03SR	05SR	09SR
Building Wire THHN							
14 AWG	0.108	2.74	0.0092	5.935	3	5	9
12 AWG	0.126	3.20	0.0125	8.065	2	4	7
10 AWG	0.170	4.32	0.0227	14.645	1	2	4
Signal Wire UL Style 1061 • 300V 80 C°*							
18 AWG	0.066	2.74	0.0034	2.194	30	57	97
20 AWG	0.066	1.68	0.0028	1.806	37	69	117
22 AWG	0.050	1.27	0.0020	1.290	53	99	169
24 AWG	0.045	1.14	0.0016	1.032	65	123	208
Unshielded Twisted Pair Wire (UTP) 24 AWG*							
2-Pair	0.140	3.56	0.0154	9.935	7	13	22
3-Pair	0.150	3.81	0.0177	11.419	6	11	19
4-Pair Cat 5e, Cat 6	0.220	5.59	0.0380	24.516	3	5	9
25-Pair	0.510	12.95	0.2042	131.742	0	1	2
Twisted Pair Wire (Shielding)*							
4-Pair 24 AWG	0.250	6.35	0.0491	31.677	2	4	7
25-Pair 24 AWG	0.510	12.95	0.2042	131.742	0	1	2
Type 1A 22 AWG	0.430	10.92	0.1451	93.613	1	1	2
Coax Cable (Max.)							
RG-58/U	0.193	4.90	0.0292	18.839	4	7	11
RG-59/U, RG-62/U	0.242	6.15	0.0460	29.677	2	4	7
RG-6/U	0.270	6.86	0.0572	36.903	2	3	6
Fiber Optic Cable 62.5/125/900, PVC JACKET, OFNR*							
2 Strand	0.175	4.45	0.0240	15.484	4	8	14
4 Strand	0.185	4.70	0.0269	17.355	4	7	12
6 Strand	0.210	5.33	0.0346	22.323	3	6	10

*Based on 40% fill ratio

Area of Raceway

Model No.	Sq. In.	mm²
03SR	0.259	167.10
05SR	0.488	314.84
09SR	0.827	533.55

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BELDEN
SENDING ALL THE RIGHT SIGNALS



14 PowerSense® PoE Products

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Introduction

Delivering Power over Ethernet (PoE) to the Enterprise

Consistent with Belden's commitment to quality and innovation, we offer PowerSense™ high-performance power distribution equipment for the efficient and reliable delivery of Power over Ethernet.

What is Power over Ethernet?

Power over Ethernet refers to the ability to power network devices directly over the existing data connection, eliminating the need for an external power supply for each device. With Power over Ethernet, devices such as IP telephones, wireless LAN access points, security cameras and other enterprise terminals can safely receive power over legacy Category 5 or better LAN cabling without modifying the existing infrastructure. Power over Ethernet is also a necessity for the Voice-over-IP (VoIP) solution as this service requires an alternative power source for IP phones.

Power over Ethernet consists of two essential components: the power-sourcing equipment (PSE) and the powered devices (PD).

PowerSense — The Cutting-Edge, Modular Approach To Power over Ethernet

Midspan hubs are power-sourcing equipment. These hubs are patch panel-like devices that are installed between the existing Ethernet switch and the devices to be powered (see figure). They add power to the spare pairs of a data cable without disturbing the transmission of the data.

Belden PowerSense Midspan Hubs provide these unprecedented features:

- Full compliance with IEEE 802.3af Standards (PoE Protocol)
- Module options for 48V, 24V, 12V and Cisco CDP™ protocols
- FCC, CE and CB tested and approved for worldwide use
- Modular chassis: 24-, 20-, 10-, 8- and 1-port designs
- Assured safety: each module auto-detects the device's power requirements before forwarding power; modules allow for transparent 10/100Mb and management operations
- Each module port is voltage isolated with user replaceable fuses and is "hot swappable."

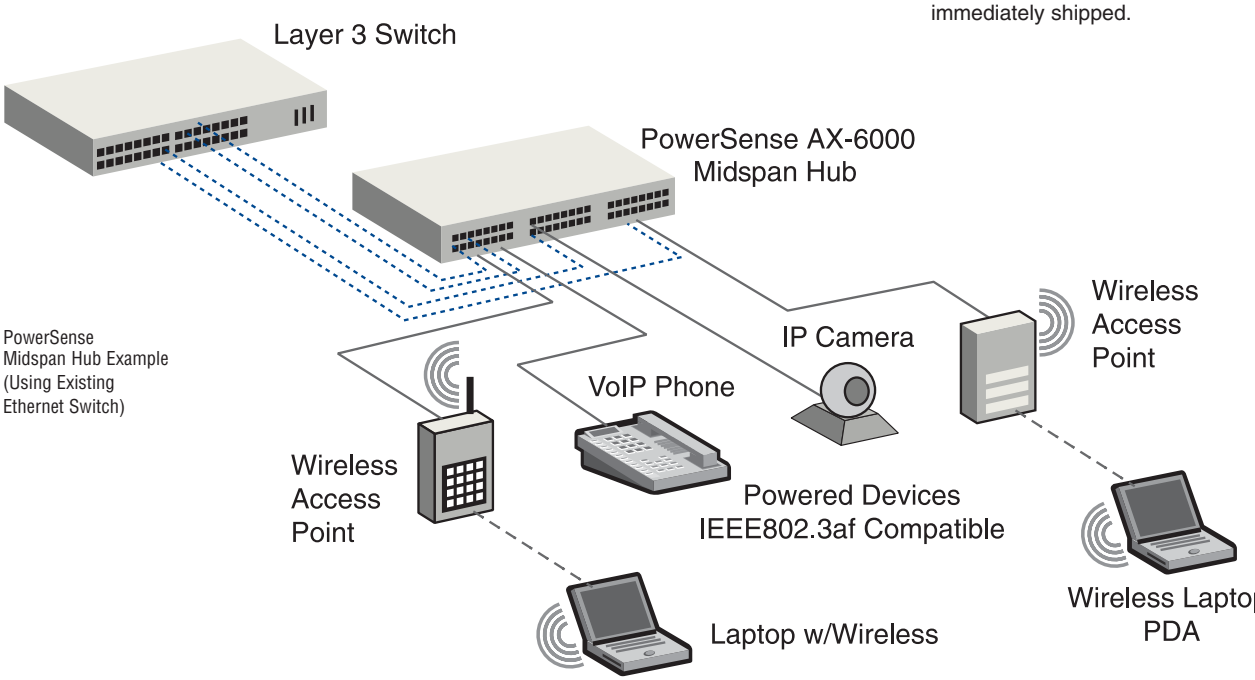
Key benefits of PowerSense include:

- Work in conjunction with existing Ethernet infrastructure and structured cabling, including the Ethernet switches or shared media devices
- Are the optimal solution for applications such as WLAN, VoIP, Web-based security cameras and access control devices
- Provide a scaleable solution: since PowerSense hubs are modular, new modules can be added as required
- Allows a fast recovery from an internal power fault condition; modules may be hot swapped.
- Reduce the total cost of ownership.

To further ensure customer satisfaction, you may try any PowerSense product free for 30 days.

Advanced Replacement Warranty

All PowerSense products have a full 2-year warranty for product quality and durability. We also offer an Advanced Replacement Warranty which means that if a PowerSense product needs to be replaced, a new unit will be immediately shipped.



PowerSense Midspan Hub Example (Using Existing Ethernet Switch)

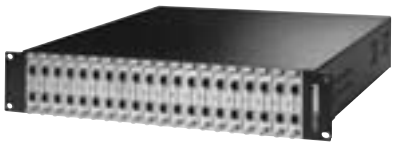
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Power Over Ethernet Midspan Hubs

PowerSense AX-8000 Series
Modular Multiport

PowerSense 20-Port Midspan Hub
IEEE 802.3af compatible



AX-8510 PowerSense10-Port Midspan Hub
IEEE 802.3af compatible



PowerSense Modules



IEEE CDP 24v 12v HW

AX-8000 PowerSense Series

The AX-8000 Modular Multiport In-Line Power Hub includes 20-slot and 10-slot modular chassis units which may be populated with any combination of PowerSense modules. The individual modules are all hot swappable and fully voltage isolated from each other. These units help reduce costs and downtime by allowing individual modules to be removed or inserted while the chassis and all other modules remain operational.

Modules can be mixed and matched to support CDP™ devices, IEEE 48-volt, 24-volt or 12-volt applications within the same chassis. Power IP phones, wireless access points, security cameras and other low voltage devices safely and efficiently. A **single port model** is also available (see page 14.4) in any of the module styles for single device powering applications.

Description	Belden Part Number
AX-8000 PowerSense Series — Multiport	
Chassis Only (without modules)	
20-slot PowerSense chassis – 19″ rack mount ready	**AX-8220**
10-slot PowerSense chassis – w/ rubber feet	**AX-8210**
10-slot PowerSense chassis – 19″ rack mount kit	**AX-8210-RM**
10-slot PowerSense chassis – wall mount kit	**AX-8210-WM**
Chassis Complete with 20 Standard Power Chassis Modules	
20 Power and Data modules – 12 volt protocol	**AX-8320**
20 Power and Data modules – 24 volt protocol	**AX-8420**
20 Power and Data modules – IEEE 802.3af compatible	**AX-8520**
20 Power and Data modules – Cisco CDP protocol	**AX-8620**
Chassis Complete with 10 Standard Power Chassis Modules	
10 Power and Data modules – 12 volt protocol	**AX-8310**
10 Power and Data modules – 24 volt protocol	**AX-8410**
10 Power and Data modules – IEEE 802.3af compatible	**AX-8510**
10 Power and Data modules – Cisco CDP protocol	**AX-8610**
Standard Power Chassis Modules (for devices up to 15.4 watts, uses 1 slot)	
Power and Data module – 12 volt protocol	**AX-8300**
Power and Data module – 24 volt protocol	**AX-8400**
Power and Data module – IEEE 802.3af compatible	**AX-8500**
Power and Data module – Cisco CDP protocol	**AX-8600**
High Wattage Chassis Modules (for devices up to 20 watts, uses 2 slots)	
Double Wide Power and Data module – 12 volt protocol	**AX-8300HW**
Double Wide Power and Data module – IEEE 802.3af compatible	**AX-8500HW**
Double Wide Power and Data module – Cisco CDP protocol	**AX-8600HW**
Custom Power Chassis Modules (for specific products)	
Power and Data module, supports AXIS 205 Camera, 12V	**AX-8300AXIS205**
Power and Data module, supports AXIS 2120 Camera, 12V	**AX-8300AXIS2120**
Power and Data module, supports IndigoVision Camera, 12V	**AX-8300IVC100**
Power and Data module, supports SONY SNCRZ30N Camera, 12V	**AX-8300SNCRZ30N**
Power and Data module, supports SAVI Products, 12V	**AX-8300SR600101**
Power and Data module, supports IQinvision IQEYE3 Camera, 24V	**AX-8400IQEYE3**
Power and Data module, supports Trango Broadband AP, 24V	**AX-8400M58305AP**
Power and Data module, supports Mobotix MX-D-03 Camera, 24V	**AX-8400MXD03**
Power and Data module, supports Smarteye Camera, 24V	**AX-8400SP400101**
Chassis Cover Plates (for unused slots)	
Single slot cover plate	**AX-8201**
Two slot cover plate	**AX-8202**
Five slot cover plate	**AX-8205**
Six slot cover plate	**AX-8206**

Visit www.BeldenIBDN.com for a product compatibility list.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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Power Over Ethernet Midspan Hubs

PowerSense AX-8000 Series
Single-Port

PowerSense 1-Port Midspan Hub
IEEE 802.3af compatible



AX-8000 PowerSense Series

For single device powering applications, this **single port version** of the popular AX-8000 PowerSense Series of Modular In-Line Power Hubs is available in any of the same module styles as the multiport version. Modules can support CDP™ devices, IEEE 48-volt, 24-volt or 12-volt applications to power IP phones, wireless access points, security cameras and other low-voltage devices safely and efficiently.

AX-8000 PowerSense Series — Single Port Hubs

Description	Belden Part Number
Standard Power Modules	
Single Power and Data port — 12V Power and Data compatible	**AX-8351**
Single Power and Data port — 24V Power and Data compatible	**AX-8451**
Single Power and Data port — IEEE 802.3af compatible	**AX-8551**
Single Power and Data port — Cisco CDP protocol	**AX-8651**
High Wattage (for devices up to 20 watts, w/ power supply)	
Double Wide Power and Data module — 12 volt protocol	**AX-8351HW**
Double Wide Power and Data module — IEEE 802.3af compatible	**AX-8551HW**
Double Wide Power and Data module — Cisco CDP protocol	**AX-8651HW**
Custom power modules, with power supply	**Various Part Numbers**

Visit www.BeldenIBDN.com for a product compatibility list.

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Power Over Ethernet Midspan Hubs

PowerSense AX-6000 Series
24-Port, 8-Port Module

PowerSense 24-Port Midspan Hub
IEEE 802.3af compatible



PowerSense 8-Port Midspan Hub
IEEE 802.3af compatible



Individual Chassis Module



AX-6000 PowerSense Series 24-Port

The **AX-6000 Modular Multiport In-Line Power Hub** safely and efficiently provides power over LAN data cabling for VoIP phones, wireless networking access points, IP security cameras and other remote network devices.

The PowerSense In-Line Power Hub provides power to LAN devices without the use of an external power supply for each device. Power is supplied over the existing LAN data cabling system. This greatly increases the flexibility of installation and possible locations for such devices, no longer requiring them to be located near a power outlet. It also adds an unprecedented level of safety and reliability for powered LAN devices.

The PowerSense Hub is a **24-port rack-mount chassis** powering up to 24 devices. Each **8-port module** is hot-swappable and modules may be added to the chassis without powering down the unit. If an individual power port is damaged due to a lightning strike or power surge, the module bank may be hot swapped out without powering down the chassis or disconnecting the other devices attached to the other power ports in the chassis.

When used with an uninterruptible power supply, the PowerSense Hub provides continuous power for up to 24 connected devices. PowerSense is tough and durable, made with an all metal chassis.

PowerSense operates on Category 5, 5e or 6 grade LAN data cable at standard Ethernet distances. The AX-6000 series supports powered devices requiring the IEEE 802.3af PoE protocol.

Description	Belden Part Number
AX-6000 PowerSense Series 24-Port	
Chassis Only (without modules)	
PowerSense Chassis, 3 slots, each slot holds one module	**AX-6224**
PowerSense Chassis, 1 slot, holds one module	**AX-6208**
1-slot Chassis (with one standard 6500 module installed)	
8 Power and Data Ports — IEEE 802.3af compatible, 10/100 Mbs	**AX-6108**
Optional 19″ Rack Mount Kit for one slot chassis	**AX-6108-RM**
3-slot Chassis (with up to three standard 6500 modules installed)	
24 Power and Data Ports — IEEE 802.3af compatible, 10/100Mbs	**AX-6524**
16 Power and Data Ports and one cover plate — IEEE 802.3af compatible	**AX-6516**
8 Power and Data Ports and two cover plates — IEEE 802.3af compatible	**AX-6508**
3-slot Chassis GIG (with up to three 6500GIG modules installed)	
24 Power and Data Ports — IEEE 802.3af compatible, 10/100/1000Mbs	**AX-6524GIG**
16 Power and Data Ports and one cover plate — IEEE 802.3af compatible	**AX-6516GIG**
8 Power and Data Ports and two cover plates — IEEE 802.3af compatible	**AX-6508GIG**
3-slot Chassis HW4 (with up to three 6500HW4 modules installed)	
12 Power and Data Ports — RJ-45, IEEE, High Power (36 watts per port) 10/100Mbs	**AX-6512HW4**
8 Power and Data Ports — RJ-45, IEEE, High Power (36 watts per port) 10/100Mbs	**AX-6508HW4**
4 Power and Data Ports — RJ-45, IEEE, High Power (36 watts per port) 10/100Mbs	**AX-6504HW4**
Spare Chassis Modules (Individual; fits one or three slot chassis)	
8 Power and Data Ports — RJ-45, IEEE 802.3af compatible, 10/100Mbs	**AX-6500**
8 Power and Data Ports — RJ-45, IEEE 802.3af compatible, 10/100/1000Mbs	**AX-6500GIG**
4 Power and Data Ports — RJ-45, IEEE, High Power (37 watts per port) 10/100Mbs	**AX-6500HW4**
Chassis Cover Plates (for unused slots)	
Single Module Cover Plate (covers one module slot)	**AX-6201**

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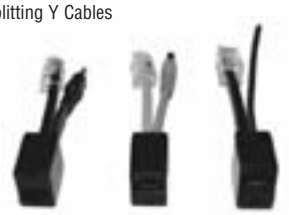
Power Over Ethernet Accessories

PoE Connectors, Data & Power Splitting "Y" Cables

Power over Ethernet Connector



Data Splitting Y Cables



Power over Ethernet Connectors

Power over Ethernet Connectors allow Cisco 7900 Series VoIP Phones or AP350 or AP1100 to be powered with IEEE 802.3af style 48-volt power over Ethernet.

Power may come from a powered Ethernet switch or midspan power hub. Connector installs near powered device. Two LEDs let user know whether power is originating from an Ethernet switch or midspan power hub.

Description	Belden Part Number
Connectors	
Input IEEE 802.3af power from any powered switch or midspan hub	**AX-8858-01**
Input IEEE 802.3af power from HP Pro Curve powered switch	**AX-8858-02**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

Data & Power Splitting "Y" Cables

Data & Power Splitting "Y" Cables are for 12 volt applications and feature a RJ-45 female/male and male power pin. They provide precise splitting of the signal for accurate performance. Various plug sizes/applications are listed below.

Description	Belden Part Number
Data Splitting Y Cables	
2.5 mm plug for AXIS PTA -20, 2100, 2120	**AX-820Y-01**
2.1 mm plug for Vivotek PTV-20	**AX-820Y-02**
1.3 mm plug for Intellinet PTI-20	**AX-820Y-03**
No plug, bare wire for IVC 100	**AX-820Y-04**
Special connector for Symbol AP 41XX	**AX-820Y-05**
5.5 mm barrel w/ 1.0 mm center — Sony SNC-RZ30N, Sony PTS-20, AXIS 2130	**AX-820Y-06**
MAXI 7-pin socket for SAVI Products	**AX-820Y-07**
CONXALL 6-pin for SAVI SR-600-101	**AX-820Y-08**
1.0 mm plug for AXIS 205, 210, 230, 241Q/S, 250S	**AX-820Y-09**
2.1 mm plug on 8" power wire for Symbol AP 3020 series	**AX-820Y-10**

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15 Commercial Networking: Copper



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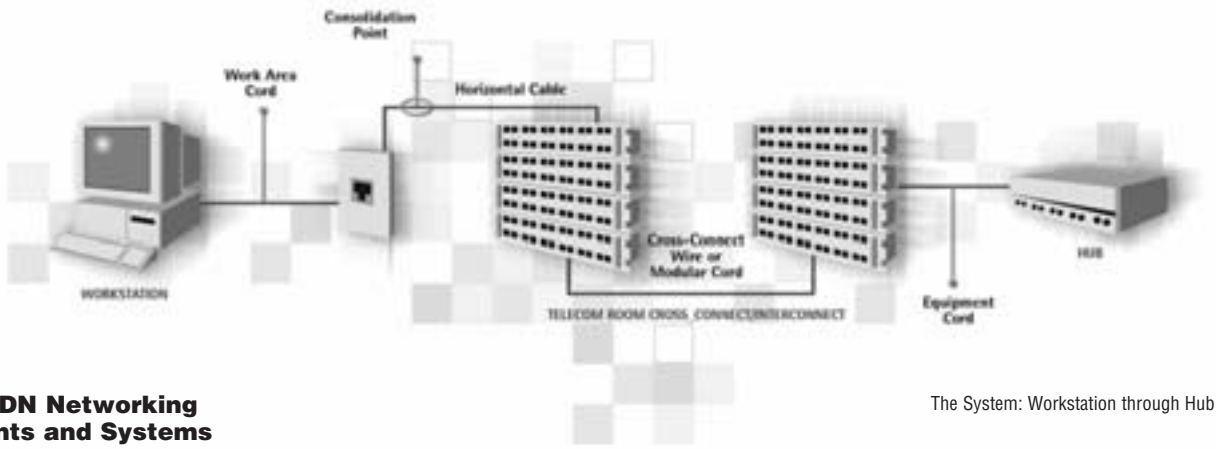
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Introduction



The System: Workstation through Hub

Belden IBDN Networking Components and Systems Overview

Each of the copper cabling components depicted on the following pages is vital to the overall performance of the network, but to achieve optimum network performance you should consider Belden IBDN end-to-end structured cabling systems.

Belden IBDN Copper Structured Cabling Systems are recognized the world over for their high quality since they are the result of both Belden's exceptional design and manufacturing expertise and the system's ability to outperform the standards.

The Revolutionary Belden IBDN System 10GX
(Cat. 6a | 10 Gb/s | 625 MHz)

What differentiates our 10GX System from other 10 Gigabit Ethernet offerings? The Belden IBDN System 10GX is not an improved or boosted Category 6 system, but a revolutionary innovation designed around a series of dynamic enabling technologies. Because the 10GX System solves two major performance issues: (1) a reduction in Alien crosstalk to about 15 dB, or 30 times lower than the Alien NEXT for 1000BASE-T at a distance of 100 meters, and (2) the System's ability to control Insertion Loss, Return Loss, NEXT, PSNEXT, Alien PSNEXT, ELFEXT, PSELFEXT and Alien PSFEXT characteristics during high frequency operation — it not only meets the high speed, high bandwidth demands of today's networks, but this advanced solution is ready to meet the challenges of the networks of tomorrow.

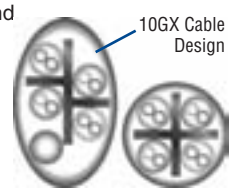
System 10GX Performance-Enabling Technologies

The performance of each critical component of the 10GX solution has been optimized through use of the following performance-enabling technologies:

- The system's cable is based upon an innovative SpiralFleX™ design that serves to reduce Alien crosstalk by randomizing the distance between the cables
- A patent-pending IDC design and patch panel circuit layout called MatriX IDC™ technology is utilized to substantially eliminate the issue of Alien crosstalk between the system's modules
- X-Bar™ technology: The X-Bar is a control device that enables the accurate positioning of each UTP pair before the pair is terminated on the 10GX Module's IDC pins
- A patent-pending FleXPoint PCB (printed circuit board) is used within the module housing to position the compensation circuitry directly at the plug's point of contact. Instant compensation delivers excellent crosstalk performance up to 625 MHz!

10GX Cable Design Improves Alien Crosstalk

The major technical challenge for traditional UTP cables resides with the electromagnetic coupling between a cable and its neighboring cables. This coupling is typically enhanced by the fact that all the cable pairs have the same twisting lay and therefore have the same resonance frequencies. Belden's use of SpiralFleX technology introduces randomization in the cable in two ways: (1) it induces with neighboring cables — to accomplish this, a filler is twisted around the four cable pairs — and, (2) to create additional randomization along the full length of the cable, a unique internal cross-web is incorporated into the cable design.



Since these features both increase and randomize the distance between a cable and its neighboring cables, both the ANEXT coupling and RL channel characteristics of the cable are improved. In fact, 10GX Cables were tested in a worst-case scenario — a six-around-one cable environment — and still exhibited performance well over proposed standards. In addition, this unique 10GX Cable design is more flexible and installer-friendly than other 10G cables.

Statistically Controlled Modular Cord Manufacturing

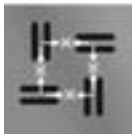
To achieve consistent high performance, Belden uses a statistical process control methodology in its modular cord manufacturing process. This assures perfect tuning between the module and the modular cord and offers improved channel performance. The design of the 10GX Modular Cord is also based upon a patent-pending plug management design that controls dNEXT and delivers extended channel performance.

10GX IDC Design Cancels Out Alien Crosstalk

The IDC is one of the most sensitive areas for Alien crosstalk management. In traditional designs, all of the IDC contacts are aligned so they become perfect antennas, allowing adjacent pairs to both emit and receive noise.

Traditional Technology





MatriX IDC Technology

Belden's patent-pending design, called MatriX IDC technology, positions each IDC at 90 degrees to its neighbor — effectively canceling out ANEXT by 15 dB as compared with traditional technology!

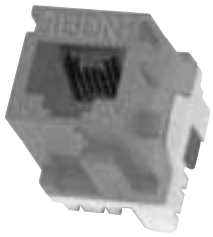
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Introduction
(continued)

10GX Module Eliminates Signal Degradation

Traditional jack designs are performance handicapped at high frequencies because of an inherent crosstalk in the plug that cannot be fully compensated for by the jack. This crosstalk occurs because the compensation circuitry is located at some physical distance from the source of the noise, which is at the plug interface. Even a very small physical distance can have a major impact at high frequencies.

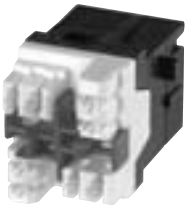


FleXPoint PCB Technology

The 10GX Modules feature FleXPoint PCB technology. This technology incorporates the use of a flexible PCB that allows the compensation circuitry to be located directly at the point of the plug contact. This reduces the delay between the source of the crosstalk in the plug and the crosstalk cancellation circuitry on the PCB. As a result the crosstalk noise at high frequencies is dramatically reduced for outstanding channel performance to 625 MHz!

Error-Free Termination Practices — *Installable Performance®*

Since structured cabling systems for Category 6 and beyond are extremely sensitive to installation practices, the 10GX System mitigates and simplifies installation issues to ensure overall 10G System performance. To ensure optimum termination of the cable to the module, a new patent-pending technology called the X-Bar was developed. The X-Bar is a plastic device that affixes to the module to ensure that each UTP pair is consistently positioned for termination on the 10GX Module's IDC pins. The X-Bar also controls the amount of unjacketed cable, plus it maintains the conductor twist lays during installation to prevent untwisting. With this consistent termination feature, the superior NEXT and ANEXT performance achieved through use of the system's innovative component designs will be maintained and remain stable throughout the installation process. We call this after-installation assurance *Installable Performance.*



FleXPoint PCB Technology

The 10GX Patch Panel With 10GX Modules

Alien crosstalk control within a patch panel is critical to the success of the system. The high density environment of a patch panel can be subjected to crippling amounts of Alien crosstalk. The unique design of the 10GX Module's IDC, and its ability to cancel the "antenna" effect between modules eliminates the Alien crosstalk issue. Because superior ANEXT performance is assured by the module-related technologies, this allows the patch panel ports to be in line. There is no need to compromise on density, and labeling and cable management features are greatly improved. In fact, the module technology is so powerful, Belden is the only manufacturer to be able to offer an ultra high-density solution with 48 ports in a 1U space!

Belden IBDN Category 5e/ Enhanced Category 6 Components and Systems

Belden IBDN Cat. 5e, Cat. 6 and Beyond Cat6® Systems can be designed and installed using either Bonded-Pair UTP cables or nonbonded-pair UTP cables. Both types of cable offer performance well beyond the standards. Bonded-Pair UTP cables — DataTwist® 350, MediaTwist® and DataTwist 600e — feature a patented design that bonds the individual insulated conductors of each pair along the full length of the cable. This bonded construction delivers Installable Performance. That is, Bonded-Pair cables are consistent in the distance between the conductors and in the amount of twist, throughout the installation process, so they deliver the same, superior electrical performance both before and after the cable's installation.

Our nonbonded-pair family of cables include GigaFlex® 1200, 2400 and 4800LX cables. These cables incorporate a patented design which provides complete quality control during the manufacturing process. This allows us to provide high quality cables that consistently offer improved channel performance and large margins over the standards. These cables will provide the capacity and performance to maximize your overall network performance.

Belden IBDN punch-down GigaFlex Modules are based on a patented Encapsulated Lead Frame technology that ensures long-term reliability, as well as extremely stable transmission performance. Lead frame technology is inherently more reliable than traditional connector technologies as it uses a single, uninterrupted copper contact path through the connector. The design of the GigaFlex Module allows signals to pass virtually unchanged through the connector, providing greater system performance.

GigaBIX® Distribution Connectors, featuring Belden's BIX Technology, are a uniquely designed solution centered around an extremely compact connector equipped with double-sided Insulation Displacement Connection (IDC) clips. The benefit of this unique design is a considerable reduction in the space that would be required by conventional connecting systems of the same pair count. The density of BIX technology is second to none, allowing up to three hundred pairs to be terminated in a very small area — a real space saver, especially in today's office environment where real estate is at a premium.

Belden IBDN System 1200
(Cat. 5e | 1.2 Gb/s | 160 MHz)

If your business is riding the current wave of growth and expansion, you may be considering new ways of doing business and a new or upgraded IT system to support these new strategies. This is the ideal time to plan and implement a new cabling system or to upgrade your existing infrastructure.

This Category 5e system was developed to support high-speed network applications such as Gigabit Ethernet and provides clear bandwidth up to 160 MHz; an increase of 60% over the Cat. 5e standard of 100 MHz. Standards organizations such as TIA/EIA and IEEE now recommend Category 5e cabling systems for all new cabling installations.

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Introduction
(continued)

Belden IBDN System 2400
(Cat. 6 | 2.4 Gb/s | 250 MHz)

If leading-edge communication systems are an element of your competitive strategy and if you consider information technology as one of the drivers of your bottom line, you should consider the speed, reliability and performance advantages of this system.

This Category 6 system meets or exceeds all requirements of the TIA/EIA Category 6 standard specifications and delivers 250 MHz bandwidth, a 25% increase over the 200 MHz bandwidth of typical Category 6 compliant channels. The Belden IBDN System 2400 provides the performance, throughput and reliability necessary to keep your critical applications operating at peak performance.

Belden IBDN System 4800LX
(Beyond Cat. 6 | 4.8 Gb/s | 300 MHz)

If every bit of information that your company processes is mission critical, you need the performance and reliability that is built into the Belden IBDN System 4800LX. This enhanced Category 6 system was conceived to support the most demanding, ultra-high speed and multi-Gigabit protocols, providing blistering performance.

The Belden IBDN System 4800LX is the industry's first 300 MHz system, far exceeding all TIA/EIA Category 6 specifications.

Belden IBDN Copper Systems: Primary Selection of Components

Solutions			Backbone Cable†	Telecom Room
Available Channel Bandwidth	Guaranteed Data Rate	UTP Channel STD Compliance	4-Pair Cables	Cross-Connect Hardware
Belden IBDN System 1200				
160 MHz PowerSum	1.2 Gb/s	Cat. 5e* TIA/EIA ISO/IEC IEEE Gigabit	DataTwist® 350 1700 (CMR) DataTwist 350 1701 (CMP) DataTwist 350 1701 (CMP-50) GigaFlex® 1212 (CMR) GigaFlex 1213 (CMP) GigaFlex 1224 (LSOH)	GigaBIX® Cross-Connect System PS5E BIX Patch Panel PS5E HD-BIX Patch Panel PS5E HD-110 Patch Panel Flex Patch Panel/EZ-MDVO PS5E Module Flex Patch Panel/GigaFlex PS5E Module 110 Cross-Connect System
Belden IBDN System 2400				
250 MHz PowerSum	2.4 Gb/s	Cat. 6** TIA/EIA ISO/IEC IEEE Gigabit	MediaTwist® 1872 (CMR) MediaTwist 1874 (CMP) GigaFlex 2412 (CMR) GigaFlex 2413 (CMP) GigaFlex 2424 (LSOH)	GigaBIX Cross-Connect System GigaFlex PS6+ Patch Panel Flex Patch Panel/GigaFlex PS6+ Module
Belden IBDN System 4800LX				
300 MHz PowerSum	4.8 Gb/s	Beyond Cat6®** TIA/EIA ISO/IEC IEEE Gigabit	DataTwist 600e 7851 (CMR) DataTwist 600e 7852 (CMP) GigaFlex 4812LX (CMR) GigaFlex 4813LX (CMP) GigaFlex 4824LX (LSOH)	GigaBIX Cross-Connect System GigaFlex PS6+ Patch Panel Flex Patch Panel/GigaFlex PS6+ Module
Belden IBDN System 10GX				
625 MHz	10 Gb/s	Beyond 10G Proposed TIA ISO/IEC IEEE 10 Gigabit	10GX 10GX12 (CMR, Nonbonded-pair) 10GX 10GX13 (CMP, Nonbonded-pair) 10GX 10GX24 (LSZH, Nonbonded-pair) 10GX 10GX16 (LC, Nonbonded-pair) 10GX 10GX32 (CMR, Bonded-Pair) 10GX 10GX44 (LSZH, Bonded-Pair) 10GX 10GX66 (LC, Bonded-Pair)	10GX Ultra High-Density Patch Panel (1U, 48 ports) 10GX Patch Panel Flex Patch Panel/10GX Module

*ANSI/TIA/EIA-568-B.1, ISO/IEC 11801 2nd Edition and IEEE 802.3ab. **ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd Edition and IEEE 802.3ab.

†Backbone can be configured with Belden IBDN Fiber*Express* Optical Fiber Cable.

Installable Performance guarantees are available on Bonded-Pair cables. Since the insulated conductors of the pairs are bonded along their longitudinal axes, Bonded-Pair cables remain intact during the installation process, so there is no separation of pair conductors and no degradation of the cables' electrical characteristics.

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Introduction
(continued)

Quality Installation And Service

Belden IBDN systems are designed, installed and field-tested by full trained and certified system contractors and integrators to further assure superior systems performance. They are also backed by a strict System Certification and Warranty Program.

System Certification and Warranty Program

The Belden IBDN Certification Program is a rigorous process that ensures that your Belden IBDN 'Certified' System is composed of Belden IBDN components, and that it has been designed and installed by a factory-trained Certified System Vendor. Belden IBDN 'Certified' Systems are supported by a series of warranties that surpass conventional product warranties.

Certification adds important end-to-end system performance guarantees and ensures full compliance with cabling industry standard specifications — even after system installation (Installable Performance). A 25-year Product Warranty and a Lifetime Application Assurance program accompany each Belden IBDN 'Certified' System installation. These warranty programs include coverage for both parts and labor.

		Horizontal Cable		Work Area	
	Cross-Connect Patch System	4-Pair Cables	Installable Performance®††	Outlets — Connectors, Faceplates & Adapters	Modular Cords
	GigaBIX Cross-Connect Wire GigaBIX Patch Cords GigaFlex PS5E Modular Cords PS5E 110 Patch Cords	DataTwist 350 1700 (CMR) DataTwist 350 1701 (CMP) DataTwist 350 1701 (CMP-50) GigaFlex 1212 (CMR) GigaFlex 1213 (CMP) GigaFlex 1224 (LSOH)	● ● ●	PS5E BIX DVO Outlet EZ-MDVO PS5E Module GigaFlex PS5E Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters European-style Faceplates French-style Faceplates	GigaFlex PS5E Modular Cords
	GigaBIX Cross-Connect Wire GigaBIX PS6+ Patch Cords GigaFlex PS6+ Modular Cords	MediaTwist 1872 (CMR) MediaTwist 1874 (CMP) GigaFlex 2412 (CMR) GigaFlex 2413 (CMP) GigaFlex 2424 (LSOH)	● ●	GigaFlex PS6+ Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters European-style Faceplates French-style Faceplates	GigaFlex PS6+ Modular Cords
	GigaBIX Cross-Connect Wire GigaBIX PS6+ Patch Cords GigaFlex PS6+ Modular Cords	DataTwist 600e 7851 (CMR) DataTwist 600e 7852 (CMP) GigaFlex 4812LX (CMR) GigaFlex 4813LX (CMP) GigaFlex 4824LX (LSOH)	● ●	GigaFlex PS6+ Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters European-style Faceplates French-style Faceplates	GigaFlex PS6+ Modular Cords
	10GX Modular Cords	10GX 10GX12 (CMR, Nonbonded-pair) 10GX 10GX13 (CMP, Nonbonded-pair) 10GX 10GX24 (LSZH, Nonbonded-pair) 10GX 10GX16 (LC, Nonbonded-pair) 10GX 10GX32 (CMR, Bonded-Pair) 10GX 10GX33 (CMP, Bonded-Pair) 10GX 10GX44 (LSZH, Bonded-Pair) 10GX 10GX66 (LC, Bonded-Pair)	 ● ● ● ●	10GX Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters	10GX Modular Cords

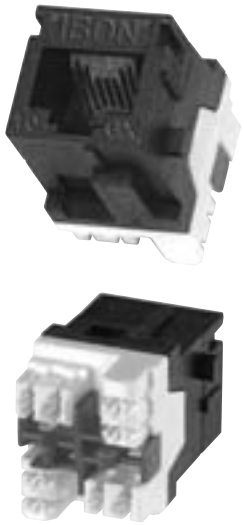
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Belden IBDN System 10GX

10GX Modules and 10GX Patch Panels

AX102272 10GX Module, Black



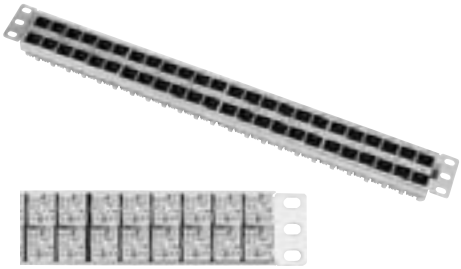
10GX Module

The 10GX Module is a revolutionary punch down UTP connector designed to be used within the new Belden IBDN System 10GX. In order to achieve true 10G performance, Belden has designed the 10GX Module based on three revolutionary module technologies making the 10GX Module the most advanced 10G module available. It is designed to work in existing hardware including the Flex Modular Patch Panel and MediaFlex Outlet Series. It can also be mixed and matched with a wide variety of adapters and boxes to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications closet applications. The unmatched Beyond 10G™ performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number
Belden IBDN System 10GX	
10GX Module, Augmented Category 6	
MDVO-Style, T568A/B, Gray	**AX102269**
MDVO-Style, T568A/B, White	**AX102271**
MDVO-Style, T568A/B, Black	**AX102272**
MDVO-Style, T568A/B, Red	**AX102274**
MDVO-Style, T568A/B, Yellow	**AX102275**
MDVO-Style, T568A/B, Green	**AX102276**
MDVO-Style, T568A/B, Blue	**AX102277**
MDVO-Style, T568A/B, Ivory	**AX102562**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

AX102488 10GX Ultra High-Density Patch Panel 1U, 48-port, Titanium



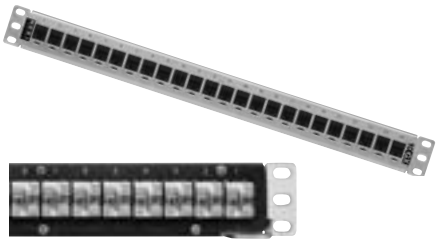
10GX Patch Panel

The 10GX Patch Panel is a fully loaded patch panel designed to be used within the Belden IBDN System 10GX. The 10GX Patch Panel features the revolutionary 10GX Module, specifically designed to meet the difficult challenges of 10 Gb/s transmission. 10GX Patch Panels are available in high-density options such as 24 ports in 1U or 48 ports in 2U, but the phenomenal ANEXT performance of the 10GX Module has allowed Belden to also support an ultra high-density option offering the 10GX Ultra High-Density Patch Panel supporting 48 ports in 1U. The unmatched Beyond 10G™ performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number
Belden IBDN System 10GX	
10GX Ultra High-Density Patch Panel, Augmented Category 6	
1U, 48-port, Titanium	**AX102488**
10GX Patch Panel, Augmented Category 6	
1U, 24-port, Titanium	**AX102293**
2U, 48-port, Titanium	**AX102296**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

AX102293 10GX Patch Panel 1U, 24-port, Titanium



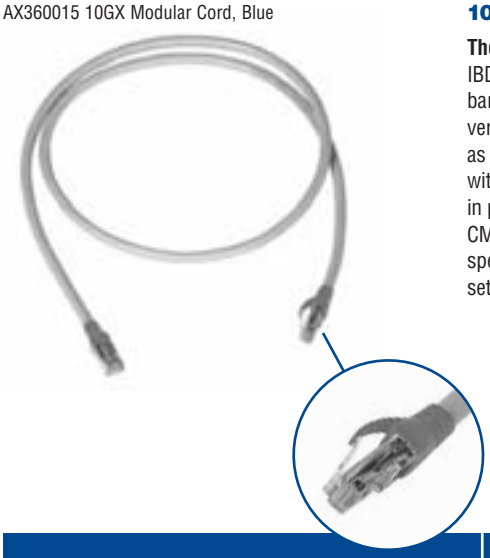
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Belden IBDN System 10GX

10GX Modular Cords

AX360015 10GX Modular Cord, Blue



10GX Modular Cords

The 10GX Modular Cords are 4-pair 23 AWG UTP modular cords designed to be used within the Belden IBDN System 10GX. Belden has designed the 10GX Modular Cord based on a patent-pending management bar design which allows for very good control of the internal plug NEXT. The patch cable design offers very good Alien crosstalk performance, while maintaining the important mechanical characteristics such as flexibility. The 10GX Modular Cords' design, with a very small footprint, makes them fully compatible with the highest density hubs that utilize RJ45 jack connections. The 10GX Modular Cords are available in pantone colors that match the colors per the TIA/EIA-606 standard and the product line encompasses CMR modular cords, as well as open-ended cords. The unmatched performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number					
	Blue	White	Gray	Green	Red	Yellow
Belden IBDN System 10GX						
10GX Modular Cord, 4-Pair, 23 AWG Solid, T568A/B - T568A/B, CMR						
2.1 m (7 ft)	AX360015	AX360051	AX360027	AX360021	AX360045	AX360057
3.0 m (10 ft)	AX360016	AX360052	AX360028	AX360022	AX360046	AX360058
4.6 m (15 ft)	AX360017	AX360053	AX360029	AX360023	AX360047	AX360059
7.6 m (25 ft)	AX360018	AX360054	AX360030	AX360024	AX360048	AX360060
10GX Pigtail, 4-Pair, 23 AWG Solid, T568A — Open, CMR						
4.6 m (15 ft)			AX360265			
7.6 m (25 ft)			AX360266			
10.6 m (35 ft)			AX360267			
15.0 m (50 ft)			AX360268			
10GX Pigtail, 4-Pair, 23 AWG Solid, T568B — Open, CMR						
4.6 m (15 ft)			AX360269			
7.6 m (25 ft)			AX360270			
10.6 m (35 ft)			AX360271			
15.0 m (50 ft)			AX360272			

These products are in the process of being assessed for Gb/s compliance. Please check our Web Site for the most current RoHS status.

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Belden IBDN System 10GX

10GX Cables

24826395 10GX Cable Series, White



10GX Cable

The 10GX Cables are 4-pair 23 AWG UTP cables designed to be used within the Belden IBDN System 10GX. The GX Cable incorporates the use of patent-pending SpiralFlex™ technology, which improves the ANEXT coupling by increasing and randomizing the distance between a cable and the neighboring cables surrounding it. The unmatched Beyond 10G™ performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee channel transmission performance up to 625 MHz. The 10GX Cable Series is very complete with cable available with Bonded-Pairs and Nonbonded-pairs, and is available in plenum, non-plenum, and Limited Combustible versions.

Description	Belden Part Number
10GX Cable, Bonded-Pairs	
10GX Cable, CMR	
10GX32 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White	**24826395**
10GX32 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Blue	**24826995**
10GX Cable, CMP	
10GX33 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White	**24827395**
10GX33 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Blue	**24827995**
10GX Cable, LSZH	
10GX44 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Purple	**24828095**
10GX Cable, Limited Combustible	
10GX66 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White*	**24822395**

*DuPont™ certified limited combustible cable

10GX Cable, Nonbonded-pairs	
10GX Cable, CMR	
10GX12 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White	**24816395**
10GX12 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Blue	**24816995**
10GX Cable, CMP	
10GX13 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White	**24817395**
10GX13 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Blue	**24817995**
10GX Cable, LSZH	
10GX24 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Purple	**24818095**
10GX Cable, Limited Combustible	
10GX16 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White*	**24812395**

*DuPont™ certified limited combustible cable

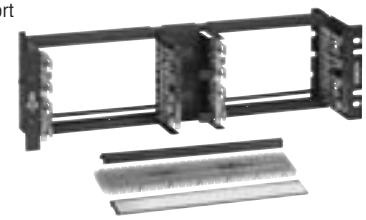
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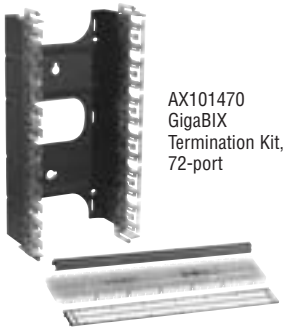
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GigaBIX Multi System

Termination Kits and Basic Components

AX101985 GigaBIX Rack Mount Termination Kit, 48-port



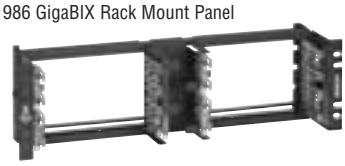


AX101470
GigaBIX
Termination Kit,
72-port

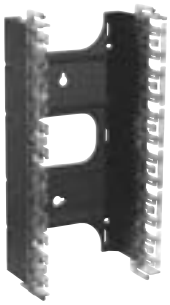
AX101447 GigaBIX Connector, 6-port



AX101986 GigaBIX Rack Mount Panel



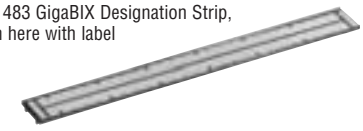
AX101472
GigaBIX Mount



AX101486 GigaBIX Wire Guard



AX101483 GigaBIX Designation Strip, shown here with label



AX101987 GigaBIX/MediaFlex Adapter



GigaBIX Termination Kits

The GigaBIX Termination Kits contains all components required to terminate cables in a GigaBIX Cross-Connect or Interconnect System. The Termination Kits allow for the most cost-effective Category 6 cross-connect or interconnect installations using GigaBIX Cross-Connect Wire or GigaBIX PS6+ Patch Cords. The GigaBIX Mount is designed to accommodate high-performance cables. The GigaBIX Connectors have color-coded edges, separation marks and a keying feature that prevents connector insertion in the wrong orientation. Each kit also contains Wire Guards, Designation Strips, Designation Labels, Velcro ties and a detailed installation guide.

GigaBIX Connector

The GigaBIX Connector is the core component of the GigaBIX Multi System. Its symmetrical construction allows termination of high-performance cables on one side and GigaBIX Cross-Connect Wires or GigaBIX Patch Cords on the other. Each GigaBIX Connector is equipped with 50 double-ended Insulation Displacement Connection (IDC) clips for terminating plastic insulated solid copper conductors without stripping. The connector is built with two staggered rows of IDC clips enclosed in a three-layer construction of fire-retardant plastic wafers. The GigaBIX Connectors have color-coded edges, separation marks and a keying feature that prevents connector insertion in the wrong orientation. The GigaBIX Connector offers exceptional performance that goes Beyond Category 6 which makes it the ideal choice for gigabit cabling networks.

GigaBIX Mount

The GigaBIX Mount for wall installations holds 12 GigaBIX Connectors and is designed to accommodate up to 144 high-performance cables when used in a top-to-bottom cross-connect layout.

The GigaBIX Rack Mount Panel allows for customizing rack mount installations for data, voice or multimedia installations. This panel can accommodate up to 8 GigaBIX Connectors, for a total of 48 terminations of 4-pair UTP cables, or up to 4 GigaBIX/MediaFlex Adapters for a total of 48 multimedia ports.

GigaBIX Wire Guard

The GigaBIX Wire Guards are plastic strips that snap behind the GigaBIX Connectors after termination to provide strain relief to the twisted pairs. They come as part of the GigaBIX Termination Kits and can also be ordered separately as replacement components.

GigaBIX Designation Strip

The GigaBIX Designation Strips are plastic strips that snap between the GigaBIX Connectors to apply the designation labels. They come as part of the GigaBIX Termination Kits and can also be ordered separately as replacement components. (See the LabelFlex section for designation labels.)

GigaBIX/MediaFlex Adapter

The GigaBIX/MediaFlex Adapter allows for mixed media installation within the expanded GigaBIX Multi family of connectivity. The GigaBIX/MediaFlex Adapter can accommodate a variety of MediaFlex inserts including UTP and multimedia inserts to customize multimedia installation in Telecommunications Rooms, Equipment Rooms, or Consolidation Points.

Description	Belden Part Number
GigaBIX Multi System	
Termination Kits	
GigaBIX Termination Kit, 72-port	**AX101470**
GigaBIX Termination Kit, 300-pair	**AX101471**
GigaBIX Rack Mount Termination Kit, 48-port	**AX101985**
Basic Components	
GigaBIX Connector, 6-port	**AX101447**
GigaBIX Connector, 25-pair	**AX101448**
GigaBIX Mount, 12-connector	**AX101472**
GigaBIX Rack Mount Panel, 48-port	**AX101986**
GigaBIX Wire Guard	**AX101486**
GigaBIX Designation Strip	**AX101483**
GigaBIX/MediaFlex Adapter	**AX101987**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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GigaBIX Multi System

Patch Cords and Cross-Connect Wire

AX101945 GigaBIX PS6+ Patch Cord, BIX-BIX, 4 ft.



AX101951 GigaBIX PS6+ Patch Cord, BIX-8MOD, 4 ft.



GigaBIX Patch Cords

GigaBIX Patch Cords allow for high-density connections, coupled with flexibility for cost-effective installation and administration. Plug-and-go installation and rearrangement of patch cords do not require any special tools or training. GigaBIX Patch Cords are available in two different configurations: BIX-BIX patch cord configurations for easy cross-connection between equipment and distribution fields, and BIX-8MOD patch cord configurations to easily interconnect equipment utilizing 8-position modular jacks directly into GigaBIX Connectors in the distribution field.

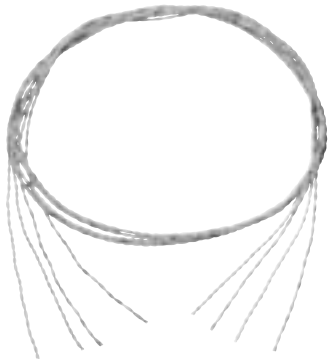
The GigaBIX PS6+ Patch Cords are 4-pair 23 AWG UTP cords. They are used in GigaBIX Multi System as part of a Belden IBDN System 2400 and System 4800LX, providing a channel bandwidth of 250 MHz and 300 MHz respectively.

The GigaBIX PS5E Patch Cords are used in the GigaBIX Multi System as part of a Belden IBDN System 1200, providing outstanding channel bandwidth of 160 MHz.

Description	Belden Part Number		
	BIX-BIX	BIX-8MOD T568A-ISDN	BIX-8MOD T568B-ALT
GigaBIX Multi System			
PS6+ Patch Cords			
4 ft. (1.2 m)	**AX101945**	**AX101951**	**AX101957**
6 ft. (1.8 m)	**AX101946**	**AX101952**	**AX101958**
8 ft. (2.4 m)	**AX101947**	**AX101953**	**AX101959**
10 ft. (3.0 m)	**AX101948**	**AX101954**	**AX101960**
15 ft. (4.6 m)	**AX101949**	**AX101955**	**AX101961**
25 ft. (7.6 m)	**AX101950**	**AX101956**	**AX101962**
PS5E Patch Cords			
4 ft. (1.2 m)	**AX101963**	**AX101969**	**AX101975**
6 ft. (1.8 m)	**AX101964**	**AX101970**	**AX101976**
8 ft. (2.4 m)	**AX101965**	**AX101971**	**AX101977**
10 ft. (3.0 m)	**AX101966**	**AX101972**	**AX101978**
15 ft. (4.6 m)	**AX101967**	**AX101973**	**AX101979**
25 ft. (7.6 m)	**AX101968**	**AX101974**	**AX101980**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

24570521 GigaBIX Cross-connect Wire, 4-pair



GigaBIX Cross-Connect Wire

GigaBIX Cross-Connect Wire is intended for use between GigaBIX cross-connect fields in a Telecommunications Room or in a Main Cross-Connect Frame. Using GigaBIX Cross-Connect Wire allows for very flexible and cost-effective installations. The cut-to-length jumper eliminates need for slack management and guarantees permanent installation aesthetics. The GigaBIX Cross-Connect Wire offers transmission performance that goes Beyond Category 6 providing additional margin to support Gigabit applications.

Color Code: White/Blue, White/Orange, White/Green, White/Brown.

Description	Belden Part Number
GigaBIX Multi System	
Cross-Connect Wire	
4-pair, 1000 ft. (305 m), Spool	**24570521**
4-pair, 1000 ft. (305 m), Spool-in-Box	**24577B15**

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GigaBIX Multi System
Cable Management Accessories

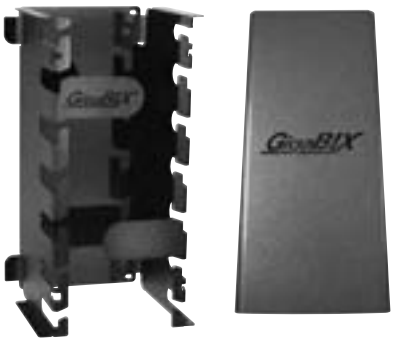
AX102154 GigaBIX Color-Coded Clip



AX101469 GigaBIX Cable Management Module



AX101468 GigaBIX Patch Cord Organizer and
AX101521 GigaBIX Patch Cord Organizer Cover



AX101520 GigaBIX Horizontal Channel Plate



AX101478 GigaBIX Management Ring



GigaBIX Colored Service Clips

The GigaBIX Colored Service Clip is a single-pair plastic clip that snaps on the GigaBIX connectors to visually identify various services when using GigaBIX Cross-Connect Wire.

GigaBIX Cable Management Module

The GigaBIX Cable Management Module is designed to be used with a wall mount solution. The accessory allows all terminated cables to be brought from the same side (top or bottom) in a high-density GigaBIX installation (4-mount stack). The modules are stackable side-to-side and top-to-bottom with alignment features to ease installation. The modules can be used horizontally to create a horizontal management channel for more flexibility in a side-to-side patching layout using GigaBIX Patch Cords.

GigaBIX Patch Cord Organizer

The GigaBIX Patch Cord Organizer is designed to be used with a wall mount solution. The Patch Cord Organizer is a metal trough that interlocks with GigaBIX Mounts to create a vertical management channel for GigaBIX Patch Cords. The Patch Cord Organizer has six (6) openings per side to nicely dress the patch cords while clearing the labeling area on the GigaBIX Mount. The organizer can be assembled over Cable Management Modules in large patch cord installations. A Patch Cord Organizer Cover can be purchased separately to hide the patch cords and give a very professional and high-tech look to the installation.

GigaBIX Horizontal Channel Plate

GigaBIX Horizontal Channel Plates are metal plates that attach to the Patch Cord Organizers to create a horizontal management channel for GigaBIX Patch Cords. The plates are used in pairs and are designed to keep patch cords inside the horizontal channel.

GigaBIX Management Ring

The GigaBIX Management Ring is a plastic ring that interlocks with the GigaBIX Mounts to create a high-density wall mount cross-connect system. The rings are assembled in systems when using cross-connect wire and have a capacity of 450 GigaBIX Cross-Connect Wires (1800-pairs total).

Description	Belden Part Number
GigaBIX Multi System	
Cable Management Accessories	
GigaBIX Color-Coded Clip, Gray	**AX102146**
GigaBIX Color-Coded Clip, Almond	**AX102147**
GigaBIX Color-Coded Clip, White	**AX102148**
GigaBIX Color-Coded Clip, Black	**AX102149**
GigaBIX Color-Coded Clip, Orange	**AX102150**
GigaBIX Color-Coded Clip, Red	**AX102151**
GigaBIX Color-Coded Clip, Yellow	**AX102152**
GigaBIX Color-Coded Clip, Green	**AX102153**
GigaBIX Color-Coded Clip, Blue	**AX102154**
GigaBIX Color-Coded Clip, Purple	**AX102155**
GigaBIX Color-Coded Clip, Brown	**AX102156**
GigaBIX Cable Management Module	**AX101469**
GigaBIX Patch Cord Organizer	**AX101468**
GigaBIX Patch Cord Organizer, Cover	**AX101521**
GigaBIX Horizontal Channel Plate	**AX101520**
GigaBIX Management Ring	**AX101478**

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GigaBIX Multi System

Cable Management Accessories

GigaBIX Distribution Frame & Accessories

GigaBIX Distribution Frames provide a compact mounting unit for large cross-connect installations of data or voice services.

The GigaBIX Distribution Frame can accommodate up to (16) 12-connector GigaBIX Mounts, eight on the equipment side and eight on the distribution side. The GigaBIX Distribution Frame has a capacity of 1152 ports or 4800 pairs. It is backwards compatible with BIX Mounts (QMBIX12E) and can be used to continue a row of BIX Distribution Frames (QFBIX24E).

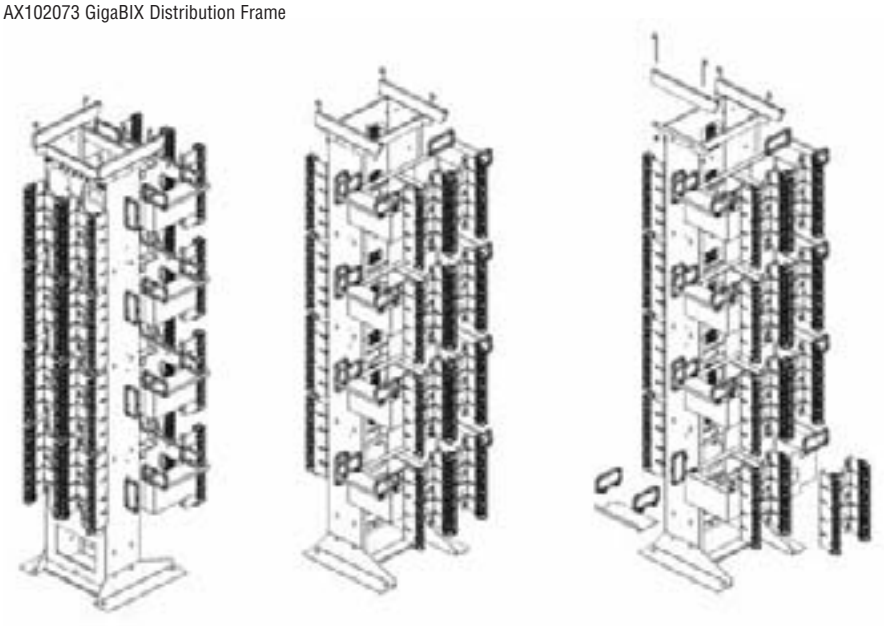
The GigaBIX Frame End Kit consists of eight (8) cable trays and eight (8) distribution rings plus appropriate mounting hardware. One kit is required to support GigaBIX Cross-Connect Wires on the sides of a single-frame installation or on the end frames of a multi-frame installation.

The GigaBIX Overhead Kit consists of two (2) metal bars and four (4) "J" bolts plus appropriate mounting hardware to support cable ladder (not included) running over a row of GigaBIX Distribution Frames.

Description	Belden Part Number
GigaBIX Multi System	
Cable Management Accessories	
Distribution Frame, 1152 ports/4800 pairs	**AX102073**
Frame End Kit	**AX102082**
Frame Overhead Kit	**AX102145**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

AX102073 GigaBIX Distribution Frame



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BIX Cross-Connect System

Distribution Connectors, Multiplying Connectors and Modular Jack Connectors

A0393146 QCBIX1A4 Connector



BIX Distribution Connector

The BIX Distribution Connector is a 25-pair connector. The connector's symmetrical construction allows termination of cables on one side and cross-connect jumper wires or BIX Patch Cords on the other. Each BIX connector is equipped with 50 double-ended Insulation Displacement Connection (IDC) clips for terminating plastic insulated solid copper conductors without stripping and pair splitters on each side of the connector facilitate wire insertion.

A0266827 QCBIX5A Multiplying Connector



BIX Multiplying Connector

BIX Multiplying Connectors are used to generate multiple outputs from a single input. Construction of these connectors is identical to that of BIX Distribution Connectors, except for the IDC clips which are bridged. BIX Multiplying Connectors are typically used in voice applications.

The QCBIX2A Connector is built using 24 sets of bridged clips (2 clips each). It is used to terminate various facilities where multiples of 2 are required.

The QCBIX5A Connector is built using 10 sets of bridged clips (5 clips each). It is used for multiple jumper connections to the same equipment.

The QCBIX7A Connector is built using 10 sets of bridged clips (four 2-clip and six 7-clip bridged arrangements). It is primarily intended for use with 1A type key telephone systems. Each connector can terminate up to three lines of key equipment providing service to as many as seven key telephone sets per line.

AX100798 BIX Modular Jack Connector



BIX Modular Jack Connector

BIX Modular Jack Connectors provide a fast and flexible method to manage small-to-medium cross-connect installations. These connectors are built with a BIX connector pre-wired to standard modular jacks. They allow front-access termination and patching.

The NXXCBMC6U Connector is a 6-port, 8-position modular connector used for data applications. It exceeds all Category 5e channel requirements when used with PS5E Modular Cords in a Belden IBDN 1200 System.

QCBIX36-type Connectors are used mostly for voice applications. The QCBIX36D connector is a 6-port, 8-position modular connector. It is pre-wired to USOC 8-wire wiring scheme specifications. The QCBIX36C connector is an 8-port, 6-position modular connector. It is pre-wired to USOC 6-wire wiring scheme specifications. The QCBIX36B connector is a 12-port, 6-position modular connector. It is pre-wired to USOC 4-wire wiring scheme specifications.

Description	Belden Part Number
BIX Cross-Connect System	
Distribution Connector	
BIX Distribution Connector, 5-pair Marking	**A0266828**
BIX Distribution Connector, 4-pair Marking	**A0393146**
Multiplying Connector	
BIX Multiplying Connector, QCBIX2A, 25-pair, 12x2-pair	**A0269923**
BIX Multiplying Connector, QCBIX5A, 25-pair, 5x5-pair	**A0266827**
BIX Multiplying Connector, QCBIX7A, 25-pair, 2x2-pair & 3x7-pair	**A0269925**
Modular Jack Connector	
BIX Modular Jack Connector, NXXCBMC6U, 6-port, PS5E, T568A/B Coded	**AX100798**
BIX Modular Jack Connector, QCBIX36D, 6-port, USOC, 8-pin	**A0341173**
BIX Modular Jack Connector, QCBIX36C, 8-port, USOC, 6-pin	**A0330864**
BIX Modular Jack Connector, QCBIX36B, 12-port, USOC, 4-pin	**A0330863**

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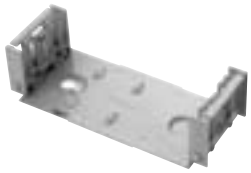
BIX Cross-Connect System

Mounts, Covers and Wire Management Accessories

A0340836 QMBIX12E BIX Mount, 300-pair



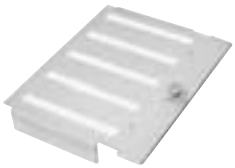
A0284798 QMBIX10C BIX Mount, 50-pair



A0277853 QMBIX31A 50-pair Mount with Locking Cover



A0285986 Locking Cover for 250-pair Mount



A0276396 BIX Cover, QMBIX10A, Stand-alone installation, Locking



A0270168 Distribution Ring



BIX Mount

BIX Mounts are basic components used in building a cross-connect system. They can accept BIX Distribution, Multiplying or Modular Jack Connectors. The 300 and 250-pair mounts can be wall-mounted or installed on BIX Frames. These mounts feature an interlocking design allowing them to be stacked for larger cross-connect installations.

The BIX 50-pair Mount is typically used in small cross-connect installations. Also available is a 50-pair mount with cover that is sold as an assembly and is typically used in small cross-connect installations where security and/or dust protection is required.

BIX Cover

BIX Covers can be used to restrict access of cross-connect installations for better protection and security. Two sizes are available to suit either the QMBIX12E 300-pair mount or the QMBIX10A 250-pair mount. The two locking covers used in wall or frame-mounted installations are molded with translucent plastic allowing visual inspection. Also available are two covers used exclusively in stand-alone QMBIX10A 250-pair mount installations: one locking, the other non-locking—both have four cable entries, one at each corner.

Distribution Ring

The Distribution Ring is used in wall mount installations providing a cross-connect channel for jumper wires, patch cords and cables. The Distribution Ring interlocks with the QMBIX12E or QMBIX10A mounts, providing proper spacing and alignment.

Description	Belden Part Number
BIX Cross-Connect System	
BIX Mount	
BIX Mount, QMBIX12E (300-pair)	**A0340836**
BIX Mount, QMBIX10A (250-pair)	**A0270164**
BIX Mount, QMBIX10C (50-pair)	**A0284798**
BIX Mount with Cover	
BIX Mount with Cover, (Locking), 50-pair	**A0277853**
BIX Mount with Cover, (Snap-on), 50-pair	**A0277854**
BIX Locking Cover	
BIX Locking Cover, for QMBIX12E (300-pair)	**A0340838**
BIX Locking Cover, for QMBIX10A (250-pair)	**A0285986**
BIX Cover	
BIX Cover, QMBIX10A, Stand-alone installation, locking	**A0276396**
BIX Cover, QMBIX10A, Stand-alone installation, non-locking	**A0276394**
Distribution Ring	
Distribution Ring	**A0270168**

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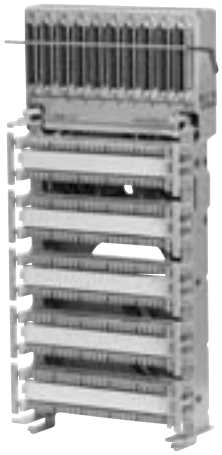
BIX Cross-Connect System

BIX Distribution Frames, Universal BIX-PAC and Trunk Access Blocks

A0340837 BIX Frame



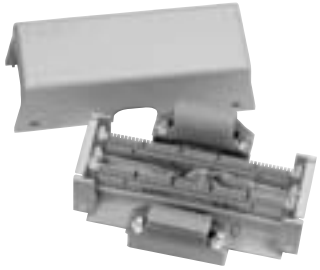
A0321776 Universal BIX-PAC Version 10-10



A0318897 BIX PAC Enclosure



A0327326 BIX Trunk Access Block



BIX Distribution Frame

BIX Distribution Frames provide a compact mounting unit for large cross-connect installations. The QFBIX24E BIX Frame can accommodate up to 16 QMBIX12E 300-pair mounts, eight on the vertical side and eight on the horizontal side. The QFBIX24E BIX Frame has a capacity of 4800-pair. The QFBIX24A BIX Frame can accommodate up to 16 QMBIX10A 250-pair mounts, eight on the vertical side and eight on the horizontal side. The QFBIX24A BIX Frame has a capacity of 4000-pair.

The BIX Frame End Kit consists of eight cable trays and eight distribution rings plus appropriate mounting hardware. One kit is required to support cross-connect wires on the sides of the shelves in a single-frame installation or on the end frames of a multi-frame installation.

The Distribution Rings are plastic rings used to manage cross-connect wires.

Universal BIX-PAC

The Universal BIX-PAC provides a fast, factory-wired, pre-tested and easy-to-install method of terminating wiring for the voice environment. A typical application for this product is in the main distribution terminal system or the riser terminal system, where it can provide connectivity and cross-connection for up to 250 pairs. The units come equipped with up to 10 QCBIX1A Connectors and 10 fifty-pin type telco connectors for the termination of connectorized cables. Also available is a BIX-PAC Enclosure, which is a fire-retardant polystyrene structural foam box that can house one BIX-PAC. The enclosure has a snap-on cover and removable panels for cable entry on top, bottom and sides.

BIX Trunk Access Block

BIX Trunk Access Blocks provide a fast, factory-wired, pre-tested and easy-to-install method for demarcation or testing points on customer premises. Typical applications are in the building entrance system or the main distribution terminal system, where the demarcation point between the network provider and the customer equipment usually can be found.

Description	Belden Part Number
BIX Cross-Connect System	
BIX Distribution Frame	
BIX Distribution Frame, 4800-pair (4 Shelves for 16 Mounts, 300-pair)	**A0340837**
BIX Distribution Frame, 4000-pair (4 Shelves for 16 Mounts, 250-pair)	**A0275511**
BIX Distribution Frame Accessories	
BIX Distribution Frame Accessories, End Kit (4 Shelves)	**A0275512***
BIX Distribution Frame Accessories, Distribution Ring	**P0596540***
Universal BIX-PAC	
Universal BIX-PAC, 10-8, 8 RJ21X Female to 8 QCBIX1A Connectors	**A0321775**
Universal BIX-PAC, 10-10, 10 RJ21X Female to 10 QCBIX1A Connectors	**A0321776**
BIX PAC Enclosure	
BIX PAC Enclosure, Gray	**A0318897**
BIX Trunk Access Block	
BIX Trunk Access Block, 1 RJ21X Female to 1 QCBIX1A Connector	**A0327325**
BIX Trunk Access Block, 2 RJ21X Female to 2 QCBIX1A Connector	**A0327326**

*Eight Distribution Rings come as part of the BIX Distribution Frame End Kit. Additional Distribution Rings can be ordered separately. Use (1) end kit per row of frames.

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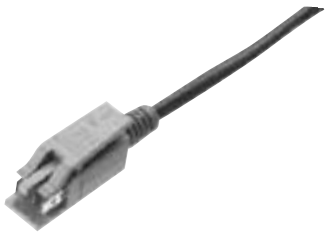
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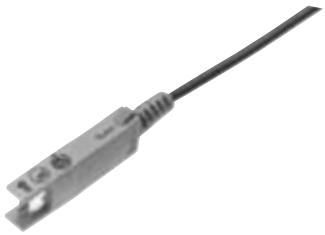
BIX Cross-Connect System

BIX Patch Cords and B-Plus Cross-Connect Wire

A0410494 BIX Patch Cord, BIX-BIX, 2-pair



A0410469 BIX Patch Cord, BIX-BIX, 1-pair



22208260 B-Plus Cross-Connect Wire



BIX Patch Cords

BIX Patch Cords allow for high-density connections, coupled with flexibility for cost-effective installation and administration. Installation and rearrangement of patch cords do not require any special tools or training. BIX Patch Cord plugs terminate directly into QCBIX1A/1A4 connectors.

B-Plus Cross-Connect Wire

B-Plus Cross-Connect Wire is intended primarily for use between incoming cables and station equipment in a Telecommunications Room or at a Main Cross-Connect.

Z Cross-Connect Wire is intended primarily for use in voice applications such as cross-connecting PBX or Key Telephone system equipment to backbone or horizontal distribution cables.

Description	Belden Part Number
BIX Cross-Connect System	
BIX Patch Cord	
BIX Patch Cord, BIX-BIX, 2-pair, 1.2 m (4 ft.)	**A0410494**
BIX Patch Cord, BIX-BIX, 1-pair, 1.2 m (4 ft.)	**A0410469**
BIX Patch Cord, BIX-BIX, 2-pair, 2.1 m (7 ft.)	**A0410495**
BIX Patch Cord, BIX-BIX, 1-pair, 2.1 m (7 ft.)	**A0410471**
BIX Patch Cord, BIX-BIX, 2-pair, 3.0 m (10 ft.)	**A0410496**
BIX Patch Cord, BIX-BIX, 1-pair, 3.0 m (10 ft.)	**A0410473**
BIX Patch Cord, BIX-BIX, 2-pair, 4.6 m (15 ft.)	**A0410497**
BIX Patch Cord, BIX-BIX, 1-pair, 4.6 m (15 ft.)	**A0410475**
BIX Patch Cord, BIX-BIX, 1-pair, 7.6 m (25 ft.)	**A0410493**
For 4-pair connections, please see the GigaBIX Patch Cord section.	
B-Plus Cross-Connect Wire	
24 AWG, 1-pair, Wh/Bl, 305 m (1000 ft.), K-Carton	**22208250**
24 AWG, 1-pair, Wh/Bl, 305 m (1000 ft.), Spool (S77)	**22208253**
24 AWG, 2-pair, Wh/Bl/Wh/Or, 305 m (1000 ft.), K-Carton	**22208260**
24 AWG, 2-pair, Wh/Gr/Wh/Or, 305 m (1000 ft.), K-Carton	**22208231**
24 AWG, 3-pair, Wh/Bl/Wh/Or/Wh/Gr, 152 m (500 ft.), K-Carton	**22208265**
24 AWG, 3-pair, Wh/Bl/Wh/Or/Wh/Gr, 200 m, K-Carton	**22208235**
24 AWG, 4-pair, Wh/Bl/Wh/Or/Wh/Gr/Wh/Br, 152 m (500 ft.), K-Carton	**22208270**
Z Cross-Connect Wire	
Z Cross-Connect Wire, 24 AWG, 1-pair, Bl/Ye, 300 m (984 ft.), Spool	**22208010**
Z Cross-Connect Wire, 24 AWG, 1-pair, Bl/Rd, 300 m (984 ft.), Spool	**22208067**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

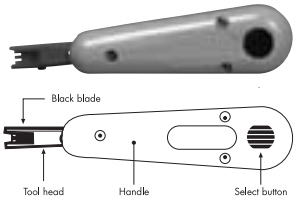
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BIX Cross-Connect System

BIX Tools, Testing Tools, Accessories and Designation Strip

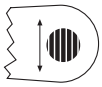
A0270165 BIX Connecting Tool



Tool in CUT position



Tool in NO CUT position



C0054642
Tool Pouch



A0270166 BIX Test Probe



A0270172
Special Service
Guard



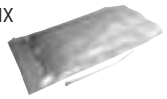
A0325493
Bridging Clip



P0660798 BIX Wire
Retainer



C0039222 BIX
Cable Tie



A0352331 19 in. Rack
Bracket Kit



A0270169 BIX Designation Strip



BIX Connecting Tool

The BIX Connecting Tool is the only tool required to terminate cables, pigtails or jumper wires on all GigaBIX and BIX connection products. The BIX Connecting Tool is a spring-activated hand tool. A single forward movement will seat the wire into the BIX IDC clip and cut off the excess wire. The tool will terminate 22-26-AWG plastic insulated solid copper conductors. A separate leather BIX Tool Pouch to carry and protect the BIX Tool can be ordered.

BIX Test Probe

The BIX Test Probe is a single-pair probe that clips onto the termination clip of BIX Distribution or BIX Modular Jack Connectors to facilitate testing.

BIX Accessories

The BIX Special Service Guard is a single-pair red plastic clip used to identify a connection within a BIX distribution field that requires special attention prior to any maintenance work.

The BIX Bridging Clip is a single-pair clip used to bridge single-pair connections of two BIX connectors.

The BIX Wire Retainer is a plastic extrusion that fits over the terminated wires on a BIX Connector to prevent them from being pulled out of the IDC contacts. It can be used to secure a permanent connection on either side of a BIX Connector.

This 19 in. Rack Bracket Kit provides the hardware for BIX Mount installation into a 19 in. rack. This kit comes complete with two mounting bars, four screws for rack mounting, four screws for BIX Mount assemblies and an installation guide.

BIX Cable Ties are used for securing wire bundles to the BIX Connector.

BIX Designation Strip

The BIX Designation Strip is designed to be used in conjunction with all BIX Mounts and BIX Connectors. It snaps in between two connectors and provides space for self adhesive BIX labels. The strip is made of white fire-retardant plastic, with ridges on the top and bottom for easy alignment and placement of designation labels. (See the LabelFlex section for designation labels.)

Description	Belden Part Number
BIX Cross-Connect System	
BIX Tools	
BIX Connecting Tool	**A0270165**
Tool Pouch	**C0054642**
BIX Test Probe	
BIX Test Probe, 1-pair, 1/pack	**A0270166**
BIX Accessories	
BIX Special Service Guard, 1-pair, Red, 50/pack	**A0270172**
BIX Bridging Clip, 1-pair, Gray, 50/pack	**A0325091**
BIX Bridging Clip, 1-pair, White, 50/pack	**A0325493**
BIX Wire Retainer, 100/pack	**P0660798**
19 in. Rack Bracket Kit, 2 bars/pack	**A0352331**
BIX Cable Tie, 100/pack	**C0039222**
BIX Designation Strip	
BIX Designation Strip, White, 50/pack	**A0270169**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

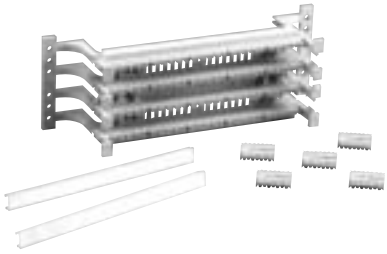
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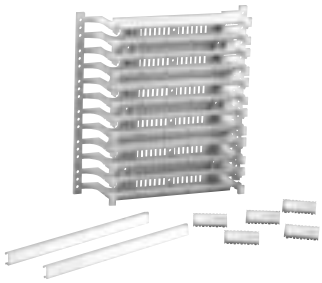
110 Cross-Connect System

110 Cross-Connect Kits, 110 Connecting Blocks, 110 Wall Mount Frame Kits and 110 Wiring Blocks

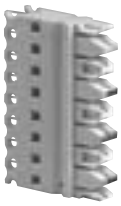
AX100694 110 Cross-Connect Kit, 100-pair



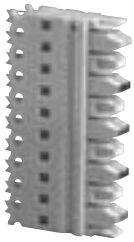
AX100696 110 Cross-Connect Kit, 300-pair



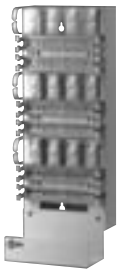
AX100707 110 Connecting Block, 4-pair



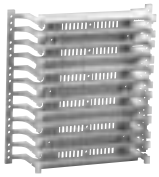
AX100708 110 Connecting Block, 5-pair



AX100697 110 Wall Mount Frame Kit, 300-pair



AX100692 Wiring Block, 300-pair



AX100691 Wiring Block, 100-pair



110 Cross-Connect Kit

110 Cross-Connect Kits contain all material required to terminate distribution or equipment cables into a 110 Cross-Connect System. Kits consist of one Wiring Block (100-pair or 300-pair) with legs, Connecting Blocks (4-pair or 5-pair), Designation Strips and Labels.

110 Connecting Block

The 110 Connecting Blocks are modular connectors equipped with double-sided Insulation Displacement Connection (IDC) clips that are used to terminate plastic insulated solid copper conductors in 110 Wiring Blocks. The color-coded connecting blocks are available in 4-pair and 5-pair configurations. These blocks are compatible with other existing 110 Cross-Connect Systems.

110 Wall Mount Frame Kit

110 Wall Mount Frame Kits simplify planning, organizing and implementation of wall mounted cross-connect systems. They are available in 300-pair and 900-pair configurations making them ideal for small telecommunications room installations. Kits consist of wiring blocks and cable management troughs to be mounted on a cable channel. Kits include all components required to complete a 110 Cross-Connect installation with either 4-pair or 5-pair connecting blocks.

110 Wiring Block

110 Wiring Blocks are rigid plastic indexing strip assemblies designed to hold and align wires prior to terminating 110 Connecting Blocks. 110 Wiring Blocks are available in 100-pair and 300-pair configurations with legs and 100-pair without legs. 110 Wiring Blocks are compatible with 22 to 26 AWG wires and accept 4-pair or 5-pair Connecting Blocks. They are specially designed to simplify data cabling installations. A deeper channel and open slots in the base allow cable to be brought close to the termination point. These blocks are compatible with other existing 110 Cross-Connect Systems.

Description	Belden Part Number
110 Cross-Connect System	
110 Cross-Connect Kit	
110 Cross-Connect Kit, 100-pair, with 4-pair Connecting Blocks	**AX100693**
110 Cross-Connect Kit, 100-pair, with 5-pair Connecting Blocks	**AX100694**
110 Cross-Connect Kit, 300-pair, with 4-pair Connecting Blocks	**AX100695**
110 Cross-Connect Kit, 300-pair, with 5-pair Connecting Blocks	**AX100696**
110 Connecting Block	
110 Connecting Block, 110C4, 4-pair	**AX100707**
110 Connecting Block, 110C5, 5-pair	**AX100708**
110 Wall Mount Frame Kit	
110 Wall Mount Frame Kit, 300-pair, with 4-pair Connecting Blocks	**AX100697**
110 Wall Mount Frame Kit, 300-pair, with 5-pair Connecting Blocks	**AX100698**
110 Wall Mount Frame Kit, 900-pair, with 4-pair Connecting Blocks	**AX100699**
110 Wall Mount Frame Kit, 900-pair, with 5-pair Connecting Blocks	**AX100700**
110 Wiring Block	
110 Wiring Block, 100-pair, without legs	**AX100690**
110 Wiring Block, 100-pair, with legs	**AX100691**
110 Wiring Block, 300-pair, with legs	**AX100692**

The 110 Cross-Connect System is not available in all countries.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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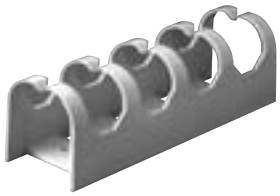
110 Cross-Connect System

110 Designation Strip and Management Accessories

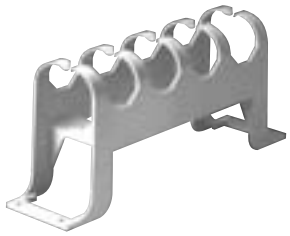
AX100721 110 Designation Strip



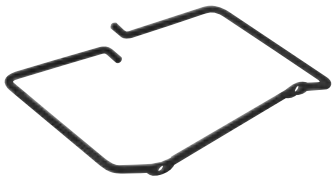
AX100705 Cable Management Trough



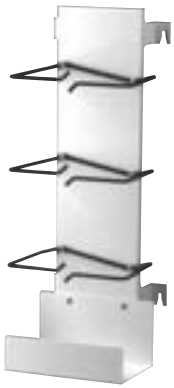
AX100706 Cable Management Trough with Legs



AX100703 Cable Management Ring



AX100701 Wall Mount Cable Management Frame, 300-pair



110 Designation Strip

The 110 Designation Strip is designed to be used in conjunction with all 110 Wiring Blocks. It snaps in between two rows of 110 Connecting Blocks and provides space to insert a designation label. The strip is made of clear PVC.

110 Management Accessories

Cable Management Troughs are utilized as channels positioned between wiring blocks for horizontal or vertical dressing of cross-connect wires and patch cords. They are available with and without mounting legs.

Cable Management Rings are used for management of cross-connect wires and cables in 110 Cross-Connect Systems. They can be mounted directly onto a plywood backboard between columns of wiring blocks. They are available in two different sizes.

Wall Mount Cable Management Frames are pre-assembled vertical cable managers that are used between 110 Wall Mount Frame Kits for vertical management of patch cords. They simplify planning and installation of 110 Cross-Connect Systems. They are available in two sizes to use with 300-pair and 900-pair Wall Mount Frame Kits.

Description	Belden Part Number
110 Cross-Connect System	
110 Designation Strip	
110 Designation Strip	**AX100721**
110 Management Accessories	
Cable Management Trough, without legs	**AX100705**
Cable Management Trough, with legs	**AX100706**
Cable Management Ring, Small 144.8 mm (5.7 in.)	**AX100703**
Cable Management Ring, Large 216 mm (8.5 in.)	**AX100704**
Wall Mount Cable Management Frame, 300-pair	**AX100701**
Wall Mount Cable Management Frame, 900-pair	**AX100702**

The 110 Cross-Connect System is not available in all countries.

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110 Cross-Connect System

110 Patch Cords

AX300001 PS5E 110 Patch Cord, 110-110, 4-pair



AX300010 PS5E 110 Patch Cord, 110-8MOD, 4-pair



AX300013 110 Patch Cord, 110-110, 2-pair



110 Patch Cord

110 Patch Cords allow for high density connections in a 110 Cross-Connect System. 110 Patch Cord rearrangements do not require any special tools or training thus providing flexibility for cost-effective installation and administration. 110 Patch Cords are available in two different configurations. 110-110 patch cord configurations are used for easy cross-connection between equipment and distribution fields.
110-8MOD patch cord configurations are used to easily interconnect equipment utilizing 8-position modular jacks directly into 110C4/C5 connecting blocks in the distribution field. PS5E 110 Patch Cords offer Category 5e performance. These patch cords are compatible with other existing 110 Cross-Connect systems.

110 Patch Cord Connector

110 Patch Cord Connectors are available in 1, 2 and 4-pair configurations for field assembly of Category 5 patch cords. They can terminate plastic insulated stranded copper conductors 24 AWG.

Description	Belden Part Number
110 Cross-Connect System	
110 Patch Cord	
110 Patch Cord, PS5E 110-110, 4-pair, 1.2 m (4 ft.)	**AX300001**
110 Patch Cord, PS5E 110-110, 4-pair, 1.8 m (6 ft.)	**AX300002**
110 Patch Cord, PS5E 110-110, 4-pair, 2.4 m (8 ft.)	**AX300025**
110 Patch Cord, PS5E 110-110, 4-pair, 3.0 m (10 ft.)	**AX300026**
110 Patch Cord, PS5E 110-110, 4-pair, 6.1 m (20 ft.)	**AX300027**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 1.2 m (4 ft.)	**AX300010**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 1.8 m (6 ft.)	**AX300009**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 2.4 m (8 ft.)	**AX300029**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 3.0 m (10 ft.)	**AX300030**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 6.1 m (20 ft.)	**AX300032**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 1.2 m (4 ft.)	**AX300008**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 1.8 m (6 ft.)	**AX300005**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 2.4 m (8 ft.)	**AX300011**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 3.0 m (10 ft.)	**AX300034**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 6.1 m (20 ft.)	**AX300017**
110 Patch Cord, 110-110, 2-pair, 1.2 m (4 ft.)	**AX300013**
110 Patch Cord, 110-110, 2-pair, 1.8 m (6 ft.)	**AX300014**
110 Patch Cord, 110-110, 2-pair, 2.4 m (8 ft.)	**AX300015**
110 Patch Cord, 110-110, 2-pair, 3.0 m (10 ft.)	**AX300037**
110 Patch Cord, 110-110, 2-pair, 6.1 m (20 ft.)	**AX300038**
110 Patch Cord, 110-110, 1-pair, 0.6 m (2 ft.)	**AX300039**
110 Patch Cord, 110-110, 1-pair, 1.2 m (4 ft.)	**AX300006**
110 Patch Cord, 110-110, 1-pair, 1.8 m (6 ft.)	**AX300007**
110 Patch Cord, 110-110, 1-pair, 2.4 m (8 ft.)	**AX300012**
110 Patch Cord, 110-110, 1-pair, 3.0 m (10 ft.)	**AX300021**
110 Patch Cord, 110-110, 1-pair, 6.1 m (20 ft.)	**AX300040**
110 Patch Cord Connector	
110 Patch Cord Connector, 4-pair	**AX100711**
110 Patch Cord Connector, 2-pair	**AX100710**
110 Patch Cord Connector, 1-pair	**AX100709**

The 110 Cross-Connect System is not available in all countries.
Other lengths are available, please contact Customer Service for further details.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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Labels
LabelFlex

AX101537 LabelFlex Labels



LabelFlex Automated Labeling Solution

The LabelFlex solution is aimed at simplifying network management. Using the labeling system (software and label types), the installer can rapidly produce quality, application specific labels for most Belden IBDN products in a fraction of the time taken by traditional methods.

The range of Belden IBDN products covered by the labeling system is:

- GigaBIX & BIX Cross-Connect Systems
- BIX Modular Jack Connectors
- 110 Cross-Connect System
- GigaFlex PS6+ Patch Panels
- Flex Patch Panels
- Workstation Outlets
- MediaFlex Faceplates series
- Cable Applications, 4-pair and 25-pair
- ID Tubes
- PS5E HD Patch Panels

Description	Belden Part Number
Labels for MediaFlex Faceplates	
Almond/Silver, 30 labels/sheet, 10 sheets/pack	**AX101820**
White, 30 labels/sheet, 10 sheets/pack	**AX101821**
Labels for BIX and GigaBIX	
Gray, 15 labels/sheet, 5 sheets/pack	**AX101532**
White, 15 labels/sheet, 5 sheets/pack	**AX101533**
Orange, 15 labels/sheet, 5 sheets/pack	**AX101534**
Red, 15 labels/sheet, 5 sheets/pack	**AX101535**
Yellow, 15 labels/sheet, 5 sheets/pack	**AX101536**
Green, 15 labels/sheet, 5 sheets/pack	**AX101537**
Blue, 15 labels/sheet, 5 sheets/pack	**AX101538**
Purple, 15 labels/sheet, 5 sheets/pack	**AX101539**
Brown, 15 labels/sheet, 5 sheets/pack	**AX101540**
Silver, 15 labels/sheet, 5 sheets/pack	**AX101541**
Labels for BIX Modular Jack Connector	
Gray, 28 labels/sheet, 5 sheets/pack	**AX101542**
White, 28 labels/sheet, 5 sheets/pack	**AX101543**
Orange, 28 labels/sheet, 5 sheets/pack	**AX101544**
Red, 28 labels/sheet, 5 sheets/pack	**AX101545**
Yellow, 28 labels/sheet, 5 sheets/pack	**AX101546**
Green, 28 labels/sheet, 5 sheets/pack	**AX101547**
Blue, 28 labels/sheet, 5 sheets/pack	**AX101548**
Purple, 28 labels/sheet, 5 sheets/pack	**AX101549**
Brown, 28 labels/sheet, 5 sheets/pack	**AX101550**
Silver, 28 labels/sheet, 5 sheets/pack	**AX101584**
Labels for Patch Panels, Outlets and Cables	
Labels for Flex Patch Panels, White, 28 labels/sheet, 5 sheets/pack	**AX101551**
Labels for Workstation Faceplates, White, 80 labels/sheet, 25 sheets/pack	**AX101552**
Labels for Workstation Single Port ID, White, 450 labels/sheet, 5 sheets/pack	**AX101553**
Labels for HD Patch Panels, White, 18 labels/sheet, 5 sheets/pack	**AX101554**
Labels for GigaFlex PS6+ Patch Panels, White, 28 labels/sheet, 5 sheets/pack	**AX101626**
Labels for 4-pair cables, Gray, 48 labels/sheet, 25 sheets/pack	**AX101555**
Labels for 25-pair cables, White, 24 labels/sheet, 25 sheets/pack	**AX101556**
Labels for 110 Cross-Connect	
Gray, 18 labels/sheet, 5 sheets/pack	**AX101557**
White, 18 labels/sheet, 5 sheets/pack	**AX101558**
Orange, 18 labels/sheet, 5 sheets/pack	**AX101559**
Red, 18 labels/sheet, 5 sheets/pack	**AX101560**
Yellow, 18 labels/sheet, 5 sheets/pack	**AX101561**
Green, 18 labels/sheet, 5 sheets/pack	**AX101562**
Blue, 18 labels/sheet, 5 sheets/pack	**AX101563**
Purple, 18 labels/sheet, 5 sheets/pack	**AX101564**
Brown, 18 labels/sheet, 5 sheets/pack	**AX101565**
Labels for ID Tubes	
3.1 in. long, White, 32 labels/sheet, 5 sheets/pack	**AX101566**
4.4 in. long, White, 30 labels/sheet, 5 sheets/pack	**AX101567**
7.4 in. long, White, 19 labels/sheet, 5 sheets/pack	**AX101568**
Software	
Automated LabelFlex Advanced Software, 1 CD/pack	**AX101569**

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Patch Panels

GigaFlex PS6+ Patch Panels Category 6

AX101613 GigaFlex PS6+ Patch Panel, 2U, 48-port



GigaFlex PS6+ Patch Panel

The GigaFlex PS6+ Patch Panel is a fully loaded patch panel using black GigaFlex PS6+ Modules. The unmatched performance of the GigaFlex PS6+ Module exceeds all parameters specified in the Category 6 standard. All performance characteristics including NEXT, FEXT, Attenuation and Return Loss have been set to guarantee transmission performance up to 300 MHz and a data-rate of up to 4.8 Gb/s.

Description	Belden Part Number
Patch Panels	
GigaFlex PS6+ Patch Panel	
GigaFlex PS6+ Patch Panel, 1U, 24-port, Gray	**AX101612**
GigaFlex PS6+ Patch Panel, 1U, 24-port, Black	**AX101611**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Gray	**AX101614**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Black	**AX101613**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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Patch Panels

PS5E HD Patch Panels Category 5E, PS5E BIX Patch Panels Category 5E and Flex Patch Panels

AX100465 PS5E HD Patch Panel, 1U, 24-port



PS5E HD Patch Panel

The Universal PS5E HD Patch Panels Series includes a variety of product styles, sizes and wiring configurations. PS5E HD Patch Panels are robust and installer-friendly products by design, combining punch down connectors with standard modular jacks. They are available in both BIX and 110 Insulation Displacement Connection (IDC) options. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately). PS5E HD Patch Panels offer Category 5E performance.

AX100473 PS5E HD Patch Panel, 2U, 48-port



PS5E BIX Patch Panel

The PS5E BIX Patch Panel is a medium density panel, 24-port in 2 rack space units, for easier installation and cable management than high density panels. The PS5E BIX Patch Panel is a robust and installer-friendly product by design, combining BIX punch down connectors with standard modular jacks. The patch panel features built-in wire management to secure cable bundles and to control and maintain patch cord bend radius. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately). The PS5E BIX Patch Panel offers Category 5E performance.

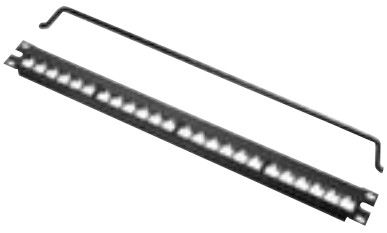
AX100506 BIX Patch Panel, 2U, 24-port



Flex Patch Panel

Flex Patch Panels provide a flexible and versatile termination solution for telecommunications room rack-mounted installations. The panels can be custom configured in the field to suit practically any particular configuration. Flex Patch Panels are compatible with GigaFlex and EZ-MDVO modules as well as MDVO-style Multimedia modules. Modules are ordered separately.

AX101456 Flex Patch Panel



Description	Belden Part Number
Patch Panels	
PS5E HD Patch Panel	
PS5E HD-BIX Patch Panel, 1U, 24-port, Gray, T568A/B	**AX100464**
PS5E HD-BIX Patch Panel, 1U, 24-port, Black, T568A/B	**AX100465**
PS5E HD-BIX Patch Panel, 2U, 48-port, Gray, T568A/B	**AX100472**
PS5E HD-BIX Patch Panel, 2U, 48-port, Black, T568A/B	**AX100473**
PS5E HD-110 Patch Panel, 1U, 24-port, Black, T568B/A	**AX100452**
PS5E HD-110 Patch Panel, 2U, 48-port, Black, T568B/A	**AX100454**
The PS5E HD-110 Patch Panel is not available in all countries. Other configurations are available, please contact Customer Service for further details.	
PS5E BIX Patch Panel	
PS5E BIX Patch Panel, 2U, 24-port, Gray, T568A-ISDN	**AX100505**
PS5E BIX Patch Panel, 2U, 24-port, Black, T568A-ISDN	**AX100506**
Flex Patch Panel	
Flex Patch Panel, 1U, 24-port, Gray	**AX101571**
Flex Patch Panel, 1U, 24-port, Black	**AX101456**
Flex Patch Panel, 2U, 48-port, Gray	**AX101573**
Flex Patch Panel, 2U, 48-port, Black	**AX101458**

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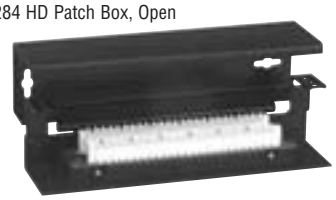
Patch Panels

PS5E HD Patch Boxes Category 5E, Connector Modules and Identification Accessories

AX100284 HD Patch Box, Closed



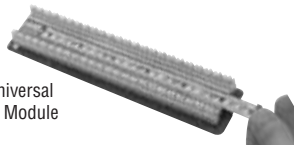
AX100284 HD Patch Box, Open



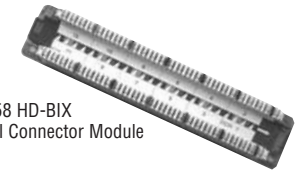
AX100282 MDVO Patch Box



AX100461
HD-110 Universal
Connector Module



AX100458 HD-BIX
Universal Connector Module



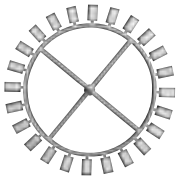
AX100599 PS5E BIX Connector Module, Front



AX100599 PS5E BIX Connector Module, Back



AX100435
Color-Coded
Icon Kit



AX101093 Clear ID Tubes



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PS5E HD Patch Box

The PS5E HD Patch Boxes are available in BIX and 110 configurations and hold one 12-port universal connector module in a compact and robust metal enclosure. The patch box features a hinged cover and support brackets to secure cables and maintain patch cord bend radius. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately) All performance parameters, including NEXT, Attenuation and Return Loss are designed to meet the Category 5E Cabling standard.

An MDVO Patch Box is also available that can be custom configured in the field using up to 12 GigaFlex, EZ-MDVO or MDVO Multimedia Modules. Modules are ordered separately.

PS5E HD-BIX Universal Connector Module

The PS5E HD Universal Connector Module is a 12-port UTP Module with a BIX or 110 termination interface that is used as a replacement module in the PS5E HD Patch Panels and Patch Boxes.

PS5E BIX Connector Module

The PS5E BIX Connector Module is a 2-port UTP Module with BIX termination interface that is used as a replacement module in the PS5E BIX Patch Panel 24-port.

Color-Coded Icon Kit

Color-Coded Icons can be used to tag each outlet port as data or voice and simplify network management. The snap-on icons can be used with PS5E HD Patch Panels, PS5E HD Patch Boxes, PS5E BIX Patch Panels, MediaFlex GigaFlex Inserts, PS5E DVO Workstation Outlets. They cannot be used with any of the Interface or MDVO plates, adapters or boxes.

Clear Plastic Identification Tubes

The Clear Plastic ID Tubes are new and improved plastic tubes designed to be used primarily in conjunction with the PS5E HD BIX and 110 Patch Panels and Patch Boxes. The tubes are made of clear fire-retardant plastic, with double-sided adhesive on one side. They are available in three different lengths for easy compatibility with 4, 6 or 12-port openings of the patch panels. They are sold in bags of 100 units only. The bags contain 100 ID tubes and 100 white labels.

Description	Belden Part Number
Patch Panels	
PS5E HD-BIX Patch Box	
PS5E HD-BIX Patch Box, 12-port, Gray, T568A/B	**AX100283**
PS5E HD-BIX Patch Box, 12-port, Black, T568A/B	**AX100284**
PS5E HD-110 Patch Box, 12-port, Black, T568B/A	**AX100491**
The PS5E HD-110 Patch Box is not available in all countries.	
MDVO Patch Box	
MDVO Patch Box, 12-port, Gray	**AX100281**
MDVO Patch Box, 12-port, Black	**AX100282**
PS5E HD-BIX Universal Connector Module	
PS5E HD-BIX Universal Connector Module, Universal wiring 12-port, T568A/B	**AX100458**
PS5E HD-110 Universal Connector Module, Universal wiring 12-port, T568B/A	**AX100461**
The PS5E HD-110 Universal Connector Module is not available in all countries.	
PS5E BIX Connector Module	
PS5E BIX Connector Module, 2-port, T568A-ISDN	**AX100599**
Color-Coded Icon Kit	
Color-Coded Icon Kit, Gray, 12 data, 6 voice, 6 blank icons	**AX100435**
Color-Coded Icon Kit, Almond, 12 data, 6 voice, 6 blank icons	**AX100436**
Color-Coded Icon Kit, White, 12 data, 6 voice, 6 blank icons	**AX100437**
Color-Coded Icon Kit, Black, 12 data, 6 voice, 6 blank icons	**AX100438**
Color-Coded Icon Kit, Orange, 12 data, 6 voice, 6 blank icons	**AX100439**
Color-Coded Icon Kit, Red, 12 data, 6 voice, 6 blank icons	**AX100440**
Color-Coded Icon Kit, Yellow, 12 data, 6 voice, 6 blank icons	**AX100441**
Color-Coded Icon Kit, Green, 12 data, 6 voice, 6 blank icons	**AX100442**
Color-Coded Icon Kit, Blue, 12 data, 6 voice, 6 blank icons	**AX100443**
Color-Coded Icon Kit, Purple, 12 data, 6 voice, 6 blank icons	**AX100444**
Color-Coded Icon Kit, Brown, 12 data, 6 voice, 6 blank icons	**AX100445**
Clear Plastic Identification Tubes	
Clear Plastic Identification Tubes, 188 mm (7.4 in.), HDBIX/110	**AX101093**
Clear Plastic Identification Tubes, 112 mm (4.4 in.), MDVO Patch Box	**AX101094**
Clear Plastic Identification Tubes, 79 mm (3.1 in.), MDVO, 4-port	**AX101095**

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Workstation Outlets

GigaFlex PS6+ Modules Category 6

AX101067 GigaFlex PS6+Module



GigaFlex PS6+ Module

The GigaFlex PS6+ Module is a punch down UTP connector based on a patented Encapsulated Lead Frame technology ensuring excellent long-term reliability as well as extremely stable transmission performance. The unmatched Beyond Cat6 performance exceeds all parameters specified in the Category 6 standard. All performance characteristics have been set to guarantee transmission performance up to 300 MHz and a data-rate of up to 4.8 Gb/s.

The GigaFlex PS6+ is the module of choice for terminating UTP cables into the MediaFlex and Interface Outlet Series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications room applications.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices.

Also available is the GigaFlex PS6+ Module, Clipsal-style which is fully compatible with Clipsal faceplates and mounting hardware.

Description	Belden Part Number		
	MDVO-Style	Keystone-Style	Clipsal-Style
Workstation Outlets			
GigaFlex PS6+ Module			
T568A/B, Gray	**AX101063**	**AX101318**	**AX101340**
T568A/B, Almond	**AX101064**	**AX101319**	**AX101341**
T568A/B, White	**AX101065**	**AX101320**	**AX101342**
T568A/B, Black	**AX101066**	**AX101321**	**AX101343**
T568A/B, Orange	**AX101067**	**AX101322**	**AX101344**
T568A/B, Red	**AX101068**	**AX101323**	**AX101345**
T568A/B, Yellow	**AX101069**	**AX101324**	**AX101346**
T568A/B, Green	**AX101070**	**AX101325**	**AX101347**
T568A/B, Blue	**AX101071**	**AX101326**	**AX101348**
T568A/B, Purple	**AX101072**	**AX101327**	**AX101349**
T568A/B, Brown	**AX101073**	**AX101328**	**AX101350**
T568A/B, Ivory	**AX102563**		

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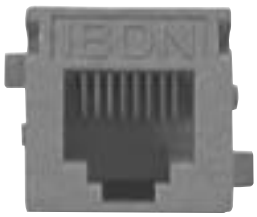
Workstation Outlets

GigaFlex PS5E Modules Category 5E and Flex Modules, USOC-coded

AX101051 GigaFlex PS5E Module



AX101037 Flex Module, USOC-coded



GigaFlex PS5E Module

The GigaFlex PS5E Module is a punch down UTP connector based on a patented Encapsulated Lead Frame technology ensuring excellent long term reliability as well as extremely stable transmission performance. The PS5E-rated performance exceeds all requirements specified in the Category 5e standard. All performance parameters including NEXT, FEXT, Attenuation and Return Loss have been set to guarantee transmission performance up to 160 MHz and a data-rate of up to 1.2 Gb/s.

The GigaFlex PS5E is the module of choice for terminating UTP cables into the MediaFlex and Interface Outlet Series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications room applications.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices.

Flex Module, USOC-coded

The Flex Module USOC-coded is a punch down UTP connector that has a narrower plug entrance and a USOC 6-pin color code in the back. These modules are used for voice applications and are designed to prevent connecting the computer into the analog phone jack, which may cause damages to the electronics.

The Flex Module is the module of choice for voice applications in the MediaFlex and Interface Outlet Series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications rooms applications.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Workstation Outlets		
GigaFlex PS5E Module		
T568A/B, Gray	**AX101044**	**AX101307**
T568A/B, Almond	**AX101045**	**AX101308**
T568A/B, White	**AX101046**	**AX101309**
T568A/B, Black	**AX101047**	**AX101310**
T568A/B, Orange	**AX101048**	**AX101311**
T568A/B, Red	**AX101049**	**AX101312**
T568A/B, Yellow	**AX101050**	**AX101313**
T568A/B, Green	**AX101051**	**AX101314**
T568A/B, Blue	**AX101052**	**AX101315**
T568A/B, Purple	**AX101053**	**AX101316**
T568A/B, Brown	**AX101054**	**AX101317**
T568A/B, Ivory	**AX102564**	
Flex Module, USOC-coded, 6-position		
Gray	**AX101033**	
Almond	**AX101034**	
White	**AX101035**	
Black	**AX101036**	
Orange	**AX101037**	
Red	**AX101038**	
Yellow	**AX101039**	
Green	**AX101040**	
Blue	**AX101041**	
Purple	**AX101042**	
Brown	**AX101043**	
Ivory	**AX102565**	

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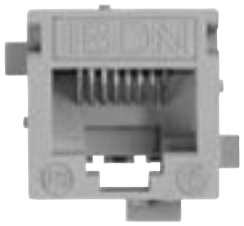
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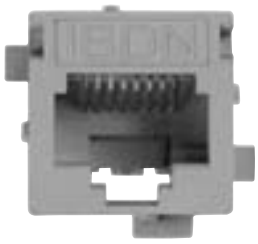
Workstation Outlets

EZ-MDVO PS5E Modules Category 5E and EZ-MDVO Modules, USOC-coded

AX100654 EZ-MDVO PS5E Module



AX100177 EZ-MDVO Module, USOC-coded



EZ-MDVO PS5E Module

The EZ-MDVO Module is built with a patented lead frame design and encapsulated insulation displacement contacts, ensuring reliable connections and performance well above Category 5E standards. The EZ-MDVO module termination cap is what is so unique about this product. It allows for a simple and fast "press-fit" installation while ensuring consistent wire termination every time it is snap-locked. The module termination cap is color-coded to facilitate wire arrangement and speed up installation time. The termination cap is printed with the T568A/B color-codes. The EZ-MDVO Modules can be mixed and matched with a wide variety of MediaFlex, Interface and MDVO-style faceplates, adapters and boxes to suit practically any installation configuration for workstation outlet installations.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices. Clipsal-style EZ-MDVO Modules are available for installations using commercially available Clipsal faceplates and HPM-style EZ-MDVO Modules are available for installations using commercially available HPM faceplates.

EZ-MDVO Module, USOC-coded

The EZ-MDVO Module USOC-coded has a narrower plug entrance and is designed to be used for voice applications. These modules prevent connecting the computer into the analog phone jack, which may cause damages to the electronics. Also available is the EZ-MDVO Module, USOC-coded keystone style.

Description	Belden Part Number			
	MDVO-Style	Keystone-Style	Clipsal-Style	HPM-Style
Workstation Outlets				
EZ-MDVO PS5E Module				
T568A/B coded, Gray	**AX100645**	**AX100577**	**AX100678**	**AX100667**
T568A/B coded, Almond	**AX100646**	**AX100578**	**AX100679**	**AX100668**
T568A/B coded, White	**AX100647**	**AX100579**	**AX100680**	**AX100669**
T568A/B coded, Black	**AX100648**	**AX100580**	**AX100681**	**AX100670**
T568A/B coded, Orange	**AX100649**	**AX100581**	**AX100682**	**AX100671**
T568A/B coded, Red	**AX100650**	**AX100582**	**AX100683**	**AX100672**
T568A/B coded, Yellow	**AX100651**	**AX100583**	**AX100684**	**AX100673**
T568A/B coded, Green	**AX100652**	**AX100584**	**AX100685**	**AX100674**
T568A/B coded, Blue	**AX100653**	**AX100585**	**AX100686**	**AX100675**
T568A/B coded, Purple	**AX100654**	**AX100586**	**AX100687**	**AX100676**
T568A/B coded, Brown	**AX100655**	**AX100587**	**AX100688**	**AX100677**
EZ-MDVO Module, USOC-coded, 6 position				
Gray	**AX100171**	**AX100588**		
Almond	**AX100172**	**AX100589**		
White	**AX100173**	**AX100590**		
Black	**AX100174**	**AX100591**		
Orange	**AX100175**	**AX100592**		
Red	**AX100176**	**AX100593**		
Yellow	**AX100177**	**AX100594**		
Green	**AX100178**	**AX100595**		
Blue	**AX100179**	**AX100596**		
Purple	**AX100180**	**AX100597**		
Brown	**AX100181**	**AX100598**		

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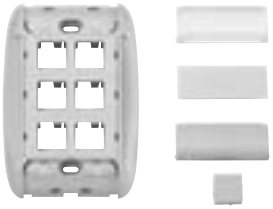
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Workstation Outlets

MediaFlex Faceplate Kits and MediaFlex Plates

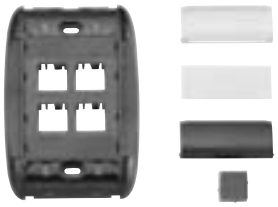
AX101786 MediaFlex Faceplate Kit, 6-port



AX101779 MediaFlex Faceplate Kit, 2-port



AX101785 MediaFlex Faceplate Kit, 4-port



AX101748 MediaFlex Plate, Single Gang



AX101869 MediaFlex Plate, Double Gang



MediaFlex Faceplate Kit

MediaFlex Plates and Inserts snap together to create a full line of modular workstation outlets. This product line, called the MediaFlex Modular Outlet Series, has been designed with the help of industrial designers as well as other professionals in the industry in order to combine flexibility, ease of use and high-tech aesthetics for work area installations.

Even though the MediaFlex series is a modular outlet system, ease and flexibility in ordering and inventory management are also considered with the offering of pre-configured faceplate kits (includes plate, flush MDVO-style inserts, filler inserts, MDVO blank, labeling window covers, labeling paper and all necessary mounting screws).

MediaFlex Plate

MediaFlex Plates are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets.

MediaFlex Plates can be mounted over standard NEMA type outlet boxes and rings to provide support for a variety of MediaFlex Adapters and Inserts. The fully modular construction combined with the front access design provides extensive configuration flexibility for current and future network needs. MediaFlex Plates are available in Single gang and Double gang configurations.

The Double gang faceplate comes with a stand-off ring included in the package. This ring allows for easy mounting with virtually any industry electrical box or mud/adapter rings, therefore providing added installation flexibility.

Each plate has the capacity of up to 6 ports per Single gang and 12 ports per Double gang.

Description	Belden Part Number		
	2-Port Flush	4-Port Flush	6-Port Flush
Workstation Outlets			
MediaFlex Faceplate Kit			
Gray	**AX101778**	**AX101782**	**AX101786**
Almond	**AX101779**	**AX101783**	**AX101787**
Elec. White	**AX101780**	**AX101784**	**AX101788**
Black	**AX101781**	**AX101785**	**AX101789**
White	**AX102621**	**AX102622**	**AX102623**
Ivory	**AX102566**	**AX102567**	**AX102568**

Description	Belden Part Number	
	Single Gang	Double Gang
MediaFlex Plate		
Gray	**AX101745**	**AX101869**
Almond	**AX101746**	**AX101870**
Elec. White	**AX101747**	**AX101871**
Black	**AX101748**	**AX101872**
White	**AX102608**	**AX102609**
Ivory	**AX102569**	**AX102570**

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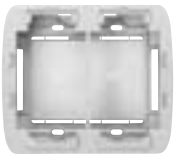
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Workstation Outlets

MediaFlex Adapter Boxes and MediaFlex Inserts

AX101874 MediaFlex Adapter Box, Double Gang



MediaFlex Surface Adapter Box

MediaFlex Surface Adapter Boxes are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets.

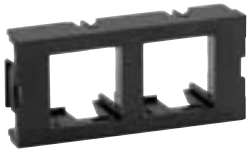
MediaFlex Surface Adapter Boxes can be mounted over standard NEMA type outlet boxes and rings to provide support for the MediaFlex plates. The MediaFlex Surface Adapter Boxes are available as a Double gang configuration. The Double gang box allows more room for cable management and bend radius control.

Description	Belden Part Number					
	Gray	Almond	Elec. White	Black	White	Ivory
Workstation Outlets						
MediaFlex Adapter Box						
Single Gang	AX102480	AX102481	AX102482	AX102483	AX102484	AX102485
Double Gang	AX101873	AX101874	AX101875	AX101876	AX102610	AX102571

AX101756 MediaFlex MDVO (style) Insert, 2-port, Angled



AX101752 MediaFlex MDVO (style) Insert, 2-port, Flush



AX101760 MediaFlex Filler Insert, 1-unit



AX101764 MediaFlex Filler Insert, 2-unit



AX101768 PS6+ MediaFlex GigaFlex Insert, 2-port



MediaFlex Insert

MediaFlex Inserts provide optimum flexibility in configuring multimedia workstation outlets that respond to any present or future network needs. MediaFlex MDVO-style Inserts along with MediaFlex Filler Inserts and MediaFlex GigaFlex Inserts allow for the easy configuration of outlets. All inserts are front loaded and easily snapped in and out of the MediaFlex Plates for simple installation and maintenance.

MediaFlex MDVO-style Inserts are available in a 2-port configuration in both Flush and Angled versions. They are compatible with all GigaFlex and MDVO Modules (EZ-MDVO and Multimedia). The inserts are two units high for the flush version and three units high for the angled version. Therefore three flush inserts or two angled inserts are required to fully populate a Single gang MediaFlex Plate.

MediaFlex GigaFlex Inserts are available in a 2-port configuration in both PS5E (Category 5E) and PS6+ (Beyond Category 6) performance levels. The inserts are two units high, therefore three inserts can be used to fully populate a Single gang MediaFlex Plate making up a 6-port outlet.

MediaFlex Filler Inserts are used to fill the unused spaces in low density workstation outlets. They are available in one unit and two unit sizes.

Description	Belden Part Number	
	Flush	Angled
Workstation Outlets		
MediaFlex MDVO (style) Insert		
2-port, Gray, bag of 10 units	AX101749	AX101753
2-port, Almond, bag of 10 units	AX101750	AX101754
2-port, Elec. White, bag of 10 units	AX101751	AX101755
2-port, Black, bag of 10 units	AX101752	AX101756
2-port, White, bag of 10 units	AX102612	AX102613
2-port, Ivory, bag of 10 units	AX102572	AX102573

Description	Belden Part Number	
	PS6+	PS5E
MediaFlex GigaFlex Insert		
2-port, Gray	AX101765	AX101769
2-port, Almond	AX101766	AX101770
2-port, Elec. White	AX101767	AX101771
2-port, Black	AX101768	AX101772
2-port, Ivory	AX102574	AX102575

Description	Belden Part Number	
	1-Unit	2-Unit
MediaFlex Filler Insert		
Gray, bag of 10 units	AX101757	AX101761
Almond, bag of 10 units	AX101758	AX101762
Elec. White, bag of 10 units	AX101759	AX101763
Black, bag of 10 units	AX101760	AX101764
White, bag of 10 units	AX102614	AX102615
Ivory, bag of 10 units	AX102576	AX102577

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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Workstation Outlets

MediaFlex Inserts (continued) and Accessories

AX101878 MediaFlex RCA Insert, 3-port, Angled



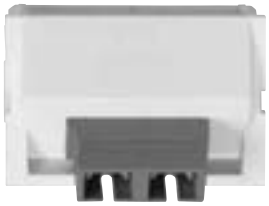
AX101882 MediaFlex SVHS Insert, 1-port, Angled



AX101886 MediaFlex SVGA Insert, 1-port, Angled



AX101937 MediaFlex SC Duplex Insert, Angled



AX101777 Labeling Window Cover



AX101790 Dust Cover



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MediaFlex Multimedia Insert

MediaFlex Multimedia Inserts provide optimum flexibility in configuring multimedia workstation outlets that respond to any present or future network needs. MediaFlex Multimedia Inserts along with other MediaFlex Inserts allow for easy configuration of outlets. All inserts are front loaded and easily snapped in and out of the MediaFlex Plates for easy installation and maintenance.

MediaFlex Multimedia inserts include the following products:

- 3-Port RCA insert with IDC termination
- SVHS insert with IDC termination, and feedthrough
- SVGA (DB15) insert with IDC termination
- SC Duplex inserts in MM and SM

MediaFlex Multimedia Inserts are available in Angled versions only in order to allow for proper management of cable bend radius. The inserts are three units high, therefore two inserts are required to fully populate a Single gang faceplate and four inserts will fully populate a Double gang faceplate.

Labeling Window Cover/Dust Cover

MediaFlex Accessories include Labeling Window Covers used with the MediaFlex faceplates and Dust Covers used with the MediaFlex GigaFlex Inserts. Dust Covers can also be used with standard GigaFlex and EZ-MDVO UTP Modules.

Description	Belden Part Number
MediaFlex Multimedia Insert	
3-port RCA, Gray	**AX101877**
3-port RCA, Almond	**AX101878**
3-port RCA, Elec. White	**AX101879**
3-port RCA, Black	**AX101880**
3-port RCA, White	**AX102616**
3-port RCA, Ivory	**AX102578**
1-port SVHS, Gray	**AX101881**
1-port SVHS, Almond	**AX101882**
1-port SVHS, Elec. White	**AX101883**
1-port SVHS, Black	**AX101884**
1-port SVHS, White	**AX102617**
1-port SVHS, Ivory	**AX102579**
1-port SVGA, Gray	**AX101885**
1-port SVGA, Almond	**AX101886**
1-port SVGA, Elec. White	**AX101887**
1-port SVGA, Black	**AX101888**
1-port SVGA, White	**AX102618**
1-port SVGA, Ivory	**AX102580**
SVGA Feedthrough, Gray	**AX102334**
SVGA Feedthrough, Almond	**AX102335**
SVGA Feedthrough, Elec. White	**AX102336**
SVGA Feedthrough, Black	**AX102337**
SVGA Feedthrough, White	**AX102630**
SVGA Feedthrough, Ivory	**AX102581**
SC Duplex Single-mode, Gray	**AX101935**
SC Duplex Single-mode, Almond	**AX101936**
SC Duplex Single-mode, Elec. White	**AX101937**
SC Duplex Single-mode, Black	**AX101938**
SC Duplex Single-mode, White	**AX102619**
SC Duplex Single-mode, Ivory	**AX102649**
SC Duplex Multimode, Gray	**AX101939**
SC Duplex Multimode, Almond	**AX101940**
SC Duplex Multimode, Elec. White	**AX101941**
SC Duplex Multimode, Black	**AX101942**
SC Duplex Multimode, White	**AX102620**
SC Duplex Multimode, Ivory	**AX102650**
MediaFlex Accessories	
Window Cover, Clear, bag of 25 units	**AX101773**
Window Cover, Gray, bag of 25 units	**AX101774**
Window Cover, Almond, bag of 25 units	**AX101775**
Window Cover, Elec. White, bag of 25 units	**AX101776**
Window Cover, Black, bag of 25 units	**AX101777**
Dust Cover, Clear, bag of 50 units	**AX101790**

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Workstation Outlets

MDVO Faceplates Flush and Angled

A0405257 MDVO Faceplate, 1-port



A0405294 MDVO Faceplate, 8-port



A0620807 MDVO Faceplate, 12-port



A0645267 MDVO Angled Entry Faceplate, shown here with modules



MDVO Faceplate, Flush

MDVO Faceplates flush combine ease of use and aesthetics in work area installations. The Single gang faceplates are available in 1-port and 8-port configurations, Double gang faceplates are configured for 12-ports. The Single gang faceplates can fit over the Interface Surface Adapter Boxes for surface mount installations.

MDVO faceplates are suitable for use with EZ-MDVO and MDVO Multimedia Modules.

MDVO Angled Entry Faceplate

The MDVO Angled Entry Faceplate offers better patch cord protection than traditional faceplates and optimizes patch cord bend radius control. The MDVO Angled Entry Faceplate can accept up to four EZ-MDVO or MDVO Multimedia Modules. The faceplate can be attached to standard electrical boxes or wall-mounting hardware for flush-mount installations. The faceplate can also fit over the Interface Surface Adapter Box for surface mount installations.

Description	Belden Part Number
Workstation Outlets	
MDVO Faceplate	
Flush, 1-port, Single Gang, Gray	**A0405255**
Flush, 1-port, Single Gang, Almond	**A0405256**
Flush, 1-port, Single Gang, White	**A0405257**
Flush, 1-port, Single Gang, Black	**A0405258**
Flush, 1-port, Single Gang, Ivory	**AX102585**
Flush, 8-port, Single Gang, Gray	**A0405294**
Flush, 8-port, Single Gang, Almond	**A0405295**
Flush, 8-port, Single Gang, White	**A0405296**
Flush, 8-port, Single Gang, Black	**A0405298**
Flush, 8-port, Single Gang, Ivory	**AX102586**
Flush, 12-port, Double Gang, Gray	**A0620806**
Flush, 12-port, Double Gang, Almond	**A0620807**
Flush, 12-port, Double Gang, White	**A0620808**
Flush, 12-port, Double Gang, Black	**A0620809**
Flush, 12-port, Double Gang, Ivory	**AX102587**
MDVO Angled Entry Faceplate	
4-port, Gray	**A0645267**
4-port, Almond	**A0645268**
4-port, White	**A0645269**
4-port, Black	**A0645270**
4-port, Ivory	**AX102588**

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Workstation Outlets

Interface Plate and Surface Adapter Boxes

AX101431 Interface Plate, 2-port, shown here with modules



AX101438 Interface Plate, 4-port, shown here with modules



AX101441 Interface Plate, 6-port, shown here with modules



AX101474 Interface/MDVO Surface Adapter Box



Interface Plate, Flush

Interface Plates combine flexibility and ease of use in work area installations. They are designed to accept the EZ-MDVO and GigaFlex UTP modules as well as all the MDVO Multimedia Modules. The Interface Plates are available in Single gang and can accept up to 6 modules. They also have labeling capabilities using built-in labeling windows. The faceplates can be attached to standard electrical boxes or wall-mounting hardware for flush-mount installations. The faceplates can also fit over the Interface Adapter Boxes for surface mount installations.

Interface/MDVO Surface Adapter Box

The Interface/MDVO Surface Adapter Box allows surface mounting of Interface Plates as well as MDVO Flush and Angled entry faceplates. The box can be mounted on any flat surface or can be attached to standard electrical boxes or wall-mounting hardware for additional storage space.

Description	Belden Part Number
Workstation Outlets	
Interface Plate	
Flush, 2-port, Gray	**AX101431**
Flush, 2-port, Almond	**AX101432**
Flush, 2-port, White	**AX101433**
Flush, 2-port, Black	**AX101434**
Flush, 2-port, Ivory	**AX102582**
Flush, 4-port, Gray	**AX101435**
Flush, 4-port, Almond	**AX101436**
Flush, 4-port, White	**AX101437**
Flush, 4-port, Black	**AX101438**
Flush, 4-port, Ivory	**AX102583**
Flush, 6-port, Gray	**AX101439**
Flush, 6-port, Almond	**AX101440**
Flush, 6-port, White	**AX101441**
Flush, 6-port, Black	**AX101442**
Flush, 6-port, Ivory	**AX102584**
Interface/MDVO Surface Adapter Box	
Single Gang, Gray	**AX101474**
Single Gang, Almond	**AX101475**
Single Gang, White	**AX101476**
Single Gang, Black	**AX101477**
Single Gang, Ivory	**AX102589**

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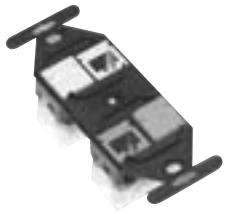
Workstation Outlets

MDVO Adapters

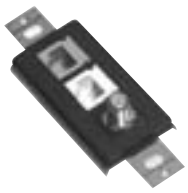
A0645271 MDVO Side Entry Box, shown here with modules



AX100311 MDVO 106 Adapter, 4-port, shown here with modules



A0409654 MDVO Deco Adapter, shown here with modules



AX100925 MDVO Modular Furniture Adapter, 4-port, shown here with modules



MDVO Adapters

All MDVO Adapters are compatible with GigaFlex, EZ-MDVO and MDVO Multimedia Modules.

The MDVO Side Entry Box can be easily mounted directly on the wall, as well as on modular furniture panels, baseboards and utility poles. The compact size of the box allows secure installation in confined areas such as behind a desk or underneath a workstation.

The MDVO 106 Adapters are designed for installations using standard NEMA electrical-style faceplates also referred to as 106-type or duplex wall plates.

The MDVO Deco Adapter is designed for installations using Decora style wall plates.

MDVO Modular Furniture Adapters are the ideal outlet adapters for open office furniture applications. They can be snapped into any standard opening, in modular furniture settings.

Description	Belden Part Number
Workstation Outlets	
MDVO Adapters	
MDVO Side Entry Box, 2-port, Gray	**A0645271**
MDVO Side Entry Box, 2-port, Almond	**A0645272**
MDVO Side Entry Box, 2-port, White	**A0645273**
MDVO Side Entry Box, 2-port, Black	**A0645274**
MDVO Side Entry Box, 2-port, Ivory	**AX102590**
MDVO 106 Adapter, 2-port, Gray	**AX100304**
MDVO 106 Adapter, 2-port, Almond	**AX100305**
MDVO 106 Adapter, 2-port, White	**AX100306**
MDVO 106 Adapter, 2-port, Black	**AX100307**
MDVO 106 Adapter, 2-port, Ivory	**AX102591**
MDVO 106 Adapter, 4-port, Gray	**AX100308**
MDVO 106 Adapter, 4-port, Almond	**AX100309**
MDVO 106 Adapter, 4-port, White	**AX100310**
MDVO 106 Adapter, 4-port, Black	**AX100311**
MDVO 106 Adapter, 4-port, Ivory	**AX102592**
MDVO Deco Adapter, 3-port, Gray	**A0409651**
MDVO Deco Adapter, 3-port, Almond	**A0409652**
MDVO Deco Adapter, 3-port, White	**A0409653**
MDVO Deco Adapter, 3-port, Black	**A0409654**
MDVO Deco Adapter, 3-port, Ivory	**AX102593**
MDVO Modular Furniture Adapter, 3-port, Gray	**A0407071**
MDVO Modular Furniture Adapter, 3-port, Almond	**A0407072**
MDVO Modular Furniture Adapter, 3-port, White	**A0407073**
MDVO Modular Furniture Adapter, 3-port, Black	**A0407074**
MDVO Modular Furniture Adapter, 3-port, Ivory	**AX102648**
MDVO Modular Furniture Adapter, 4-port, Gray	**AX100925**
MDVO Modular Furniture Adapter, 4-port, Almond	**AX100926**
MDVO Modular Furniture Adapter, 4-port, White	**AX100927**
MDVO Modular Furniture Adapter, 4-port, Black	**AX100928**
MDVO Modular Furniture Adapter, 4-port, Ivory	**AX102594**

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Workstation Outlets

Stainless Steel Faceplate

AX102007 2-port Stainless Steel SG Faceplate
Keystone-style, shown here with modules



AX102012 6-port Stainless Steel DG Faceplate
Keystone-style, shown here with modules



Stainless Steel Faceplate

Belden's **Stainless Steel Faceplates** are ideal for labs, sanitary, medical, and harsh environment type applications.

They are designed to accept Keystone-style modules. The Stainless Steel Faceplates are available as Single Gang and Double Gang, and can accept up to 12 modules. A studded version designed to support a wall phone is also offered. Stainless Steel Faceplates can be attached to standard NEMA type outlet boxes or wall-mounting hardware for flush-mount installation. Stainless Steel Faceplates are cULus Listed.

Please note : For use only with Keystone-style modules such as GigaFlex PS6+, GigaFlex PS5E and EZ-MDVO Modules.

Description	Belden Part Number
Workstation Outlets	
Stainless Steel Faceplate	
1-Port Stainless Steel SG Faceplate - Keystone-style studded for Phone	**AX102005**
1-Port Stainless Steel SG Faceplate - Keystone-style	**AX102006**
2-Port Stainless Steel SG Faceplate - Keystone-style	**AX102007**
3-Port Stainless Steel SG Faceplate - Keystone-style	**AX102008**
4-Port Stainless Steel SG Faceplate - Keystone-style	**AX102009**
6-Port Stainless Steel SG Faceplate - Keystone-style	**AX102010**
4-Port Stainless Steel DG Faceplate - Keystone-style	**AX102011**
6-Port Stainless Steel DG Faceplate - Keystone-style	**AX102012**
12-Port Stainless Steel DG Faceplate - Keystone-style	**AX102013**

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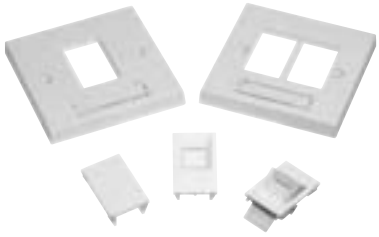
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Workstation Outlets

European Style Faceplates and Inserts

AX101372-73 European “6C” Style Faceplates and AX101377-75-76 European “6C” Inserts



European “6C” Style Faceplate

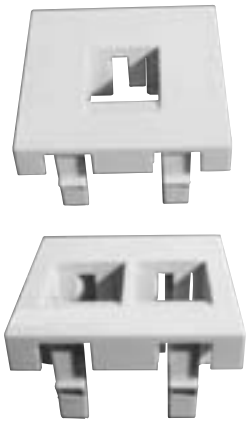
The European “6C” Style faceplates and Inserts are designed to accept the GigaFlex and EZ-MDVO UTP Modules.

They include a shutter to protect the module against dust and other contaminants.

French Style Faceplate

The French Style Faceplates are designed to accept the EZ-MDVO and GigaFlex UTP modules as well as all the MDVO multimedia modules. The faceplates can be attached to standard 45 mm x 45 mm boxes or mounting hardware for flush-mount installations.

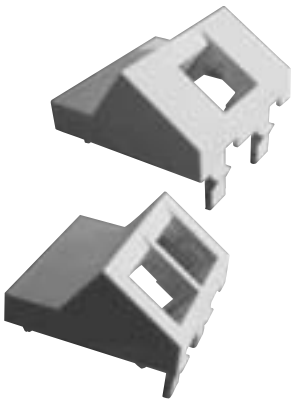
AX101413-14 French Style Faceplates



Description	Belden Part Number
Workstation Outlets	
European “6C” Style Faceplate	
European “6C” Style Faceplate, Single Gang, Single Aperture, White	**AX101372**
European “6C” Style Faceplate, Single Gang, Dual Aperture, White	**AX101373**
European “6C” Style Faceplate, Double Gang, Quad Aperture, White	**AX101374**
European “6C” Shuttered Module Holder, 1-port, Flush, White	**AX101375**
European “6C” Shuttered Module Holder, 1-port, Angled, White	**AX101376**
European “6C” Blank Insert, White	**AX101377**
French Style Faceplate	
1-port, Flush, White	**AX101413**
2-port, Flush, White	**AX101414**
1-port, Angled, White	**AX101415**
2-port, Angled, White	**AX101416**

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AX101415-16 French Style Faceplates



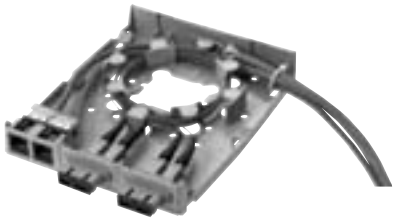
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Workstation Outlets

MDVO Multimedia Outlet Boxes, Multi-User Outlet Boxes and Multi-User Adapter Strips

A0643205 MDVO Multimedia Outlet Box, shown here as terminated





AX100222 Multi-User Outlet Box, shown here with modules



AX100223 MDVO Adapter Strip, 12-port



MDVO Multimedia Outlet Box

The MDVO Multimedia Outlet Box brings unique versatility for multimedia work area installations. The box design provides cable management and helps maintain cable bend radius. The outlet box's low profile design and side-entry offers better protection for patch cords. The outlet box can accept up to six EZ-MDVO, GigaFlex or MDVO Multimedia Modules or three SC Duplex adapters.

The MDVO Multimedia Outlet Box can be mounted directly on the wall or attached to standard electrical boxes. Included with the MDVO Multimedia box are three SC Duplex Mounting bezels and three MDVO Adapters.

Multi-User Outlet Box

The Multi-User Outlet Box is a versatile box that can be used in many different applications. The outlet box can accommodate up to 24 connections of any type, UTP, fiber or coax. The outlet box is ideal for use as a multi-user telecommunications assembly, or simply as a high-density multimedia telecommunications outlet. The Multi-User Outlet Box can also be used as a wall mounted patch panel in confined areas, such as shallow rooms and cabinets.

Multi-User Adapter Strips

The Multi-User Outlet Box design allows for mixed media installations with a choice of connection strips. The box can accept either one or two 12-port **MDVO Adapter Strips, PS5E HD Connector Module Strips (BIX or 110)**, or a combination of both for a maximum of 24 connections.

Description	Belden Part Number
Workstation Outlets	
MDVO Multimedia Outlet Box	
6-port, Gray	**A0643205**
6-port, Almond	**A0643206**
6-port, White	**A0643207**
6-port, Black	**A0643208**
6-port, Ivory	**AX102595**
Multi-User Outlet Box	
24-port, Gray	**AX100219**
24-port, Almond	**AX100220**
24-port, White	**AX100221**
24-port, Black	**AX100222**
Multi-User Adapter Strips	
MDVO Adapter Strip, 12-port, Empty, Black	**AX100223**
PS5E HD-BIX Connector Module Strip, Universal Wiring 12-port, T568A/B	**AX100224**
PS5E HD-110 Connector Module Strip, Universal Wiring 12-port, T568B/A	**AX100494**

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Workstation Outlets

MDVO Multimedia Modules

A0407005 MDVO SC Fiber Module



A0649254 SC Duplex Adapter



A0407010 MDVO ST Compatible Fiber Module



AX101467 MDVO MTRJ Fiber Module



A0406997 MDVO BNC Coaxial Module



A0406999 MDVO Video F Coaxial Module



MDVO Multimedia Module

MDVO Multimedia Modules address audio/video and fiber applications. Fiber modules are available for LC Duplex, SC Simplex, ST Compatible multimode and MT-RJ multimode & single-mode connections. The SC Duplex Adapter is a fiber adapter sleeve with flanges that mounts into the SC Duplex mounting bezel (included in the MDVO Multimedia Outlet box). Audio/video modules are available for SVHS, RCA, BNC and Video F connections.

Description	Belden Part Number				
	Gray	Almond	White	Black	Ivory
Workstation Outlets					
MDVO Multimedia Module					
LC Duplex Multimode	AX102209	AX102210	AX102211	AX102619	
LC Duplex Single-mode	AX102213	AX102214	AX102215	AX102216	
SC Simplex, Multimode	A0407003	A0407004	A0407005	A0407006	AX102596
SC Duplex Adapter, Multimode		A0649254			
ST Compatible, Multimode	A0407007	A0407008	A0407009	A0407010	AX102597
MT-RJ, Multimode		AX101467			
MT-RJ, Single-mode, Blue	AX101466				

Description	Belden Part Number				
	Gray Holder	Almond Holder	White Holder	Black Holder	Ivory Holder
Coaxial, BNC	A0406995	A0406996	A0406997	A0406998	AX102598
Coaxial, Video F	A0406999	A0407000	A0407001	A0407002	AX102599
RCA, feedthru, White insert	AX101823	AX101824	AX101825	AX101826	AX102601
RCA, feedthru, Yellow insert	AX101827	AX101828	AX101829	AX101830	AX102602
RCA, feedthru, Red insert	AX101831	AX101832	AX101833	AX101834	AX102603
RCA, feedthru, Black insert	AX101835	AX101836	AX101837	AX101838	AX102604
SVHS, feedthrough	AX101839	AX101840	AX101841	AX101842	AX102605
3.5mm Stereo	AX102624	AX102625	AX102626	AX102627	AX102628

Custom multimedia connectors are also available, please contact Customer Service for more details.

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Workstation Outlets

PS5E BIX DVO Outlets and Double Gang Outlet

PS5E BIX DVO Outlets



AX100601 PS5E BIX DVO Module



AX100613 DVO Faceplate, 3-port



AX100640 DVO Faceplate, 4-port



PS5E BIX DVO Outlet

The PS5E BIX DVO Workstation Outlets are robust and installer-friendly products, combining punch-down connectors with standard modular jacks. The outlet's unique, completely enclosed housing protects the connectors and allows the wires to be front-terminated on BIX Insulation Displacement Connectors (IDC). The snap-on cover plate allows easy access and eliminates visible mounting screws.

PS5E BIX DVO Workstation Outlets offer headroom over the Category 5e cabling standard.

PS5E BIX DVO Double Gang Outlet

PS5E BIX DVO Double Gang Workstation Outlets offer high capacity outlet configuration options in the work area. They are created by combining **PS5E BIX DVO Connector Modules and DVO Double Gang Faceplates**.

Each faceplate can accept up to two connector modules. A color-coded icon labeling system can be used to tag each outlet port and simplify network management.

Description	Belden Part Number		
	1-Port	2-Port	4-Port
Workstation Outlets			
PS5E BIX DVO Outlets			
Surface, T568A-ISDN, Gray	**AX100382**	**AX100390**	**AX100398**
Surface, T568A-ISDN, Almond	**AX100383**	**AX100391**	**AX100399**
Surface, T568A-ISDN, White	**AX100384**	**AX100392**	**AX100400**
Surface, T568A-ISDN, Black	**AX100385**	**AX100393**	**AX100401**
Surface, T568B-ALT, Gray	**AX100386**	**AX100394**	**AX100402**
Surface, T568B-ALT, Almond	**AX100387**	**AX100395**	**AX100403**
Surface, T568B-ALT, White	**AX100388**	**AX100396**	**AX100404**
Surface, T568B-ALT, Black	**AX100389**	**AX100397**	**AX100405**
Flush, T568A-ISDN, Gray	**AX100334**	**AX100342**	**AX100350**
Flush, T568A-ISDN, Almond	**AX100335**	**AX100343**	**AX100351**
Flush, T568A-ISDN, White	**AX100336**	**AX100344**	**AX100352**
Flush, T568A-ISDN, Black	**AX100337**	**AX100345**	**AX100353**
Flush, T568B-ALT, Gray	**AX100338**	**AX100346**	**AX100354**
Flush, T568B-ALT, Almond	**AX100339**	**AX100347**	**AX100355**
Flush, T568B-ALT, White	**AX100340**	**AX100348**	**AX100356**
Flush, T568B-ALT, Black	**AX100341**	**AX100349**	**AX100357**

Description	Belden Part Number			
	T568A-ISDN	T568B-ALT	3-Port	4-Port
PS5E BIX DVO Double Gang Outlet				
PS5E BIX DVO Connector Module, Flush, 1-port, Gray	**AX100601**	**AX100604**		
PS5E BIX DVO Connector Module, Flush, 2-port, Gray	**AX100602**	**AX100605**		
DVO Double Gang Faceplate, Flush, Gray			**AX100613**	**AX100640**
DVO Double Gang Faceplate, Flush, Almond			**AX100614**	**AX100641**
DVO Double Gang Faceplate, Flush, White			**AX100615**	**AX100642**
DVO Double Gang Faceplate, Flush, Black			**AX100616**	**AX100643**

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Workstation Outlets

Outlet Accessories

A0405538 MDVO Blank Insert



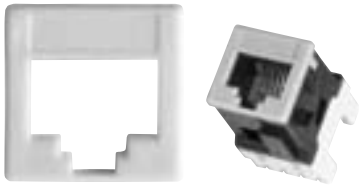
MDVO Blank Insert

MDVO Blank Inserts can be used in any MediaFlex outlets, Interface plates, MDVO faceplates, adapters or boxes to fill in unused ports.

Colored Bezel

The Colored Bezels are plastic inserts that fit over the face of GigaFlex and EZ-MDVO Modules to modify their color. They are particularly useful in installations where the churn rate is high and color identification of outlets is critical (ex.: segmented network with security levels). They also contribute to simplifying the management of the cabling infrastructure by using only one color of module for Moves, Adds and Changes (MACs).

AX102022 Colored Bezel



ID Tab

ID Tabs are color-coded identification caps that can be inserted over the GigaFlex and EZ-MDVO Modules. The ID tabs are available as blank, data or voice coded. They are available in eleven colors to facilitate identification and to match modern office decor.

The flexible identification cap also acts as a protective cover eliminating exposure to dust and other contaminants when the module is not in use.

AX100196 ID Tab



Description	Belden Part Number
Workstation Outlets	
MDVO Blank Insert	
Gray	**A0405536**
Almond	**A0405537**
White	**A0405538**
Black	**A0405539**
Electric White	**AX102607**
Ivory	**AX102600**
Colored Bezel	
Gray	**AX102014**
Almond	**AX102015**
White	**AX102016**
Black	**AX102017**
Orange	**AX102018**
Red	**AX102019**
Yellow	**AX102020**
Green	**AX102021**
Blue	**AX102022**
Purple	**AX102023**
Brown	**AX102024**
Ivory	**AX102606**

Description	Belden Part Number		
	Blank	Data	Voice
ID Tab			
Gray	**AX100182**	**AX100193**	**AX100204**
Almond	**AX100183**	**AX100194**	**AX100205**
White	**AX100184**	**AX100195**	**AX100206**
Black	**AX100185**	**AX100196**	**AX100207**
Orange	**AX100186**	**AX100197**	**AX100208**
Red	**AX100187**	**AX100198**	**AX100209**
Yellow	**AX100188**	**AX100199**	**AX100210**
Green	**AX100189**	**AX100200**	**AX100211**
Blue	**AX100190**	**AX100201**	**AX100212**
Purple	**AX100191**	**AX100202**	**AX100213**
Brown	**AX100192**	**AX100203**	**AX100214**

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Workstation Outlets
Tools

AX100749 GigaFlex Connecting Tool



GigaFlex Connecting Tool

The GigaFlex Connecting Tool is a no-impact connecting tool used to terminate cables, pigtails or cross-connect wires on any GigaFlex Module or 110 product. The GigaFlex Tool is a spring-activated hand tool. A single forward movement will seat the wire into the IDC clip and cut off the excess wire. The tool will terminate 22, 24 and 26-AWG plastic insulated solid copper conductors.

1797B Cable Preparation Tool



Bonded-Pair Cable Preparation Tool

The Bonded-Pair Cable Preparation Tool makes it faster and easier to prepare cables for connector termination. This tool is ideal for use with Belden's DataTwist® 350, MediaTwist®, and DataTwist® 600e Bonded-Pair cables, providing special features that help separate twisted pairs. It can also be used to prepare any nonbonded-pair cable for installation.

Termination Station

The Termination Station is an ergonomically designed holder that provides stability to the GigaFlex Module during the termination process. The station has pockets with locking features that steadily holds either MDVO-style or Keystone-style GigaFlex Modules or MediaFlex Inserts during pair placement and wire termination. Cable retainers on each end of the station will secure and hold cables during the pair placements process. The flat bottom surface will provide the required stability to safely terminate the modules. The tool is made of very durable plastic and its low profile makes it an easy tool to use and carry.

AX101852 Termination Station



Outlet Release Tool

The Outlet Release Tool is a very convenient tool for servicing the MediaFlex and Interface outlets. Its bent tip allows for easy front removal of MediaFlex inserts, especially when used in Angled Entry plates. It is also very useful to extract GigaFlex Modules from miscellaneous mounting hardware and to remove the protective cap for GigaFlex Module re-termination.

AX101185 Outlet Release Tool



Description	Belden Part Number
Workstation Outlets	
Tools	
GigaFlex Connecting Tool	**AX100749**
Bonded-Pair Cable Preparation Tool	**1797B**
Termination Station	**AX101852**
Outlet Release Tool	**AX101185**

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Modular Cords

GigaFlex PS6+ Modular Cords and GigaFlex PS6+ Bonded Modular Cords Enhanced Category 6

AX350061 GigaFlex PS6+ Modular Cord



GigaFlex PS6+ Modular Cord

The GigaFlex PS6+ Modular Cords are 4-pair 23 AWG UTP modular cords designed for use with the Belden IBDN Systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ Modular Cord's patented design, with a very small footprint, makes them fully compatible with any of the highest density hubs with RJ45 jack connections.

Description	Belden Part Number					
	Blue	White	Gray	Green	Red	Yellow
Modular Cords						
GigaFlex PS6+ Modular Cord, CMR 4-pair, 23 AWG solid, T568A/B-T568A/B						
0.6 m (2 ft.)	**AX350037**	**AX350043**	**AX350049**	**AX350055**	**AX350061**	**AX350067**
1.2 m (4 ft.)	**AX350038**	**AX350044**	**AX350050**	**AX350056**	**AX350062**	**AX350068**
2.1 m (7 ft.)	**AX350039**	**AX350045**	**AX350051**	**AX350057**	**AX350063**	**AX350069**
3.0 m (10 ft.)	**AX350040**	**AX350046**	**AX350052**	**AX350058**	**AX350064**	**AX350070**
4.6 m (15 ft.)	**AX350041**	**AX350047**	**AX350053**	**AX350059**	**AX350065**	**AX350071**
7.6 m (25 ft.)	**AX350042**	**AX350048**	**AX350054**	**AX350060**	**AX350066**	**AX350072**
4-pair, 23 AWG solid, T568A/B-open						
4.6 m (15 ft.)			**AX350160**			
7.6 m (25 ft.)			**AX350161**			
10.6 m (35 ft.)			**AX350162**			
15.0 m (50 ft.)			**AX350163**			

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AX380014 GigaFlex PS6+ Bonded Modular Cord



GigaFlex PS6+ Bonded Modular Cords

The GigaFlex PS6+ Bonded Modular Cords are 4-pair 24 AWG Bonded-Pair UTP modular cords designed for use with the Belden IBDN Systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ Bonded Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ Bonded Modular Cord's patented design, with a very small footprint, makes them fully compatible with the highest density hubs, with any RJ45 jack connections. The special cord design offers increased stability in crosstalk and impedance performance to support the many moves, adds and changes performed in the lifetime of the system.

Description	Belden Part Number			
	Blue	Gray	White	Yellow
Modular Cords				
GigaFlex PS6+ Bonded Mod. Cord, CMR, 4-pr, Bonded 24 AWG solid, T568A/B-T568A/B				
1.2 m (4 ft.)	**AX380014**	**AX380026**	**AX380050**	**AX380056**
2.1 m (7 ft.)	**AX380015**	**AX380027**	**AX380051**	**AX380057**
3.0 m (10 ft.)	**AX380016**	**AX380028**	**AX380052**	**AX380058**
4.6 m (15 ft.)	**AX380017**	**AX380029**	**AX380053**	**AX380059**
7.6 m (25 ft.)	**AX380018**	**AX380030**	**AX380054**	**AX380060**

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Modular Cords

GigaFlex PS5E Modular Cords and GigaFlex PS5E VoIP Cords Category 5E

AX350013 GigaFlex PS5E Modular Cord



GigaFlex PS5E Modular Cord

The GigaFlex PS5E Modular Cords are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN Plus Cabling System and the Belden IBDN System 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively.

The GigaFlex PS5E Modular Cord's patented design features a very small footprint, making them fully compatible with the highest density hubs which use RJ45 jack connections. The GigaFlex PS5E Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard.

Description	Belden Part Number					
	Blue	White	Gray	Green	Red	Yellow
Modular Cords						
GigaFlex PS5E Mod. Cord, CMR 4-pr, 24 AWG stranded, T568A/B-T568A/B						
0.6 m (2 ft.)	**AX350001**	**AX350007**	**AX350013**	**AX350019**	**AX350025**	**AX350031**
1.2 m (4 ft.)	**AX350002**	**AX350008**	**AX350014**	**AX350020**	**AX350026**	**AX350032**
2.1 m (7 ft.)	**AX350003**	**AX350009**	**AX350015**	**AX350021**	**AX350027**	**AX350033**
3.0 m (10 ft.)	**AX350004**	**AX350010**	**AX350016**	**AX350022**	**AX350028**	**AX350034**
4.6 m (15 ft.)	**AX350005**	**AX350011**	**AX350017**	**AX350023**	**AX350029**	**AX350035**
7.6 m (25 ft.)	**AX350006**	**AX350012**	**AX350018**	**AX350024**	**AX350030**	**AX350036**

AX330015 GigaFlex PS5E VoIP Modular Cord





VoIP Modular Cord features very short body RJ 45 phone connector on other end

GigaFlex PS5E VoIP Modular Cords

The GigaFlex PS5E VoIP Modular Cords are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN Plus Cabling System and the Belden IBDN System 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively. The GigaFlex PS5E VoIP Modular Cord is designed for use with VoIP phones that can not accommodate standard booted patch cords which would make the phone unstable or difficult to wall mount. The GigaFlex PS5E VoIP Modular Cord is designed with a regular booted RJ 45 plug on one end (at the wall) and a bootless very short body RJ 45 plug on the other end (at the phone). The GigaFlex PS5E VoIP Modular Cords meet all the enhanced Category 5 modular cord requirements as per the Category 5e standard, and are completely backward compatible with Category 5 jacks. The GigaFlex PS5E VoIP Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard. The GigaFlex PS5E VoIP Modular Cord product line encompass CMR-rated cords.

Description	Belden Part Number					
	Blue	White	Gray	Green	Red	Yellow
Modular Cords						
GigaFlex PS5E VoIP Mod.Cord, CMR, 4-pair, 24 AWG stranded,T568A/B-T568A/B						
0.6 m (2 ft.)	**AX330013**	**AX330049**	**AX330025**	**AX330019**	**AX330043**	**AX330055**
1.2 m (4 ft.)	**AX330014**	**AX330050**	**AX330026**	**AX330020**	**AX330044**	**AX330056**
2.1 m (7 ft.)	**AX330015**	**AX330051**	**AX330027**	**AX330021**	**AX330045**	**AX330057**
3.0 m (10 ft.)	**AX330016**	**AX330052**	**AX330028**	**AX330022**	**AX330046**	**AX330058**
4.6 m (15 ft.)	**AX330017**	**AX330053**	**AX330029**	**AX330023**	**AX330047**	**AX330059**
7.6 m (25 ft.)	**AX330018**	**AX330054**	**AX330030**	**AX330024**	**AX330048**	**AX330060**

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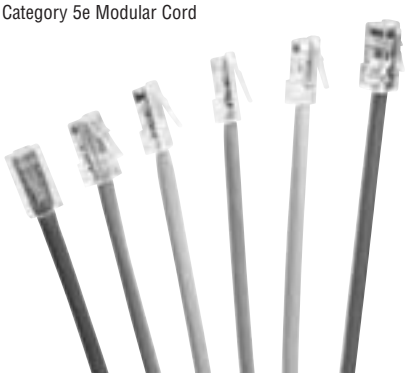
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Modular Cords

Category 5e Modular Cords

Category 5e Modular Cord



Category 5e Modular Cord

Category 5e Modular Cords are made of plenum and riser rated 24 AWG patch cable.

Description	Belden Part Number					
	Blue	Green	Red	White	Yellow	Gray
Modular Cords						
Cat. 5e Modular Cord, CMR, 4-pair, 24 AWG stranded, T568A/B-T568A/B						
0.6 m (2 ft.)	**23518027**	**23528027**	**23538027**	**23548027**	**23568027**	**23598027**
1.2 m (4 ft.)	**23518047**	**23528047**	**23538047**	**23548047**	**23568047**	**23598047**
2.1 m (7 ft.)	**23518077**	**23528077**	**23538077**	**23548077**	**23568077**	**23598077**
3.0 m (10 ft.)	**23518107**	**23528107**	**23538107**	**23548107**	**23568107**	**23598107**
4.6 m (15 ft.)	**23518157**	**23528157**	**23538157**	**23548157**	**23568157**	**23598157**
7.6 m (25 ft.)	**23518257**	**23528257**	**23538257**	**23548257**	**23568257**	**23598257**
Cat. 5e X-Over Cord, 4-pair, 24 AWG stranded, T568A-T568B X-Over						
2.1 m (7 ft.)						**23598074**
4.6 m (15 ft.)						**23598154**
7.6 m (25 ft.)						**23598254**

Description	Belden Part Number	
	CMR	CMP
Modular Cords		
Cat. 5e Modular Cord, Gray, 4-pair, 24 AWG solid, T568A/B-T568A/B		
2.1 m (7 ft.)	**23498077**	**23338077**
3.0 m (10 ft.)	**23498107**	**23398107**
7.6 m (25 ft.)	**23498257**	**23398257**
15.0 m (50 ft.)	**23498507**	**23398507**
20.1 m (66 ft.)	**23498667**	**23398667**
Cat. 5e Pigtails, Gray, 4-pair, 24 AWG solid, T568A/B-open		
3.0 m (10 ft.)	**23498105**	—
4.6 m (15 ft.)	**23498155**	—
7.6 m (25 ft.)	**23498255**	**23398255**
10.6 m (35 ft.)	**23498355**	**23398355**
15.0 m (50 ft.)	**23498505**	**23398505**

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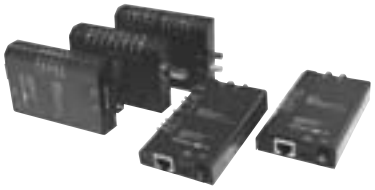
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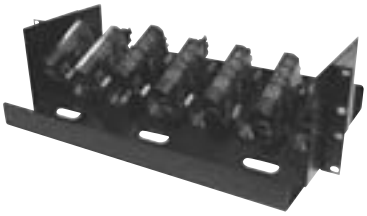
Network Connectivity Products

Media Converters, Transceivers & Hubs and Network Tester

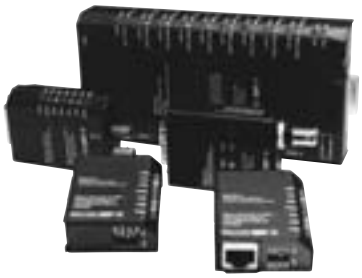
Media Converters



AX-1912 Media Converter Rack



AX050, 70 and 80 Transceivers and AX-509 Ethernet Hub



AX-110BT Realtime 10/100 Base-TX Ethernet Network Test Unit



Media Converters for Ethernet and Fast Ethernet

Media Converters enable the connection of dissimilar network cabling types, while maintaining the same network speed. A legacy Thinnet segment can be connected to a 10Base-T Hub or switch port with a AX-200 Converter or, link two different 10Base-T networks together over a multimode fiber optic link with a pair of AX-270s. Connect a legacy Thinnet segment over fiber with the AX-280 converter. The AX-5270 can be used for interbuilding links or attached to a fiber backbone.

Transceivers and Ethernet Hubs

The AX-50, 70 and 80 Transceivers enable the connection of a legacy AUI port to 10Base-T, Thinnet, or Fiber Optic media. The transceiver is powered from the host and requires no external power supply.

The AX-509 Ethernet Hub has an AUI port which accepts UTP, Fiber Optic or BNC transceivers. Specified for use by many U.S. Government Agencies. Includes a 110v/12v power supply.

Realtime 10/100 Base-TX Ethernet Network Test Unit

The AX-110BT Realtime 10/100 Base-TX Ethernet Network Test Unit is a cost effective way to quickly determine a network's operating condition. Plug the unit's patch cord into the tester then into any open RJ-45 jack in an office, cubicle or conference room. Immediately see if the jack is a live network node capable of either 100 Mb/s or 10 Mb/s. Next check patch cord continuity and polarity. Connect the downlink to a PC to check NIC card link, speed and full or half duplex capabilities. Connect the uplink to a hub or switch port to verify link and speed.

Description	Belden Part Number
Network Connectivity Products	
Media Converter	
10Base-T/10Base2, RJ-45 to BNC	**AX-200**
10Base-T/10Base-FL, RJ-45 to ST-Compatible fiber connectors	**AX-270**
10Base2/10Base-FL, BNC to ST-Compatible fiber connectors	**AX-280**
100Base-TX/100Base-FX, SC-Compatible fiber connectors	**AX-5270SC**
100Base-TX/100Base-FX, ST-Compatible fiber connectors	**AX-5270ST**
Media Converter Rack	
Holds up to 12 converters and multi lead power supplies, 19 in. rack-mount ready	**AX-1912-MCR**
Power Supply, 4-lead 110v/12v, powers up to 4 converters	**AX-270P4U**
Power Supply, 8-lead 110v/12v, powers up to 8 converters	**AX-270P8U**
Transceivers and Ethernet Hubs	
UTP Transceiver, 10Base-T, AUI to RJ-45, side port	**AX-50**
UTP Transceiver, 10Base-T, AUI to RJ-45, rear port	**AX-50R**
Fiber Transceiver, 10Base-FL, AUI to ST-Compatible	**AX-70**
Thinnet Transceiver, 10Base2, AUI to BNC	**AX-80**
Ethernet Hub with 8 RJ-45 10Base-T ports and 1 AUI port	**AX-509**
Network Tester	
Realtime 10/100 Base-TX Ethernet Network Test Unit	**AX-110BT**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

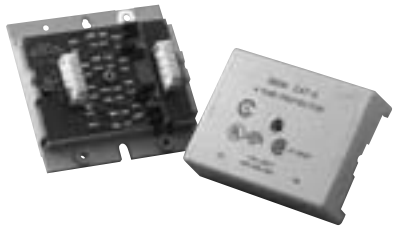
견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Line Protection and Bonding & Grounding

IDC 4-pair Protector Modules, PVCI Ground Wires, Bond Clamp and Accessories

AX100826 Cat-5e, 4-pair Protector

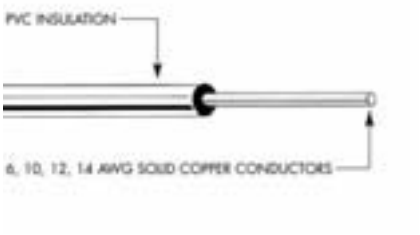


IDC 4-pair Protector Module

The IDC 4-pair Protector Module is a high-performance Category 5e, solid-state protection for Local Area Networks. Protects sensitive electronic workstations, network equipment, and cables from damage caused by transient voltage surges. Provides 100% protection with easy-to-install BIX or 110 IDC termination in a convenient 4-pair module.

Description	Belden Part Number
Line Protection	
IDC 4-pair Protector Module	
IDC Protector Module, Category 5e, 4-pair, BIX Protector, 1/pack	**AX100826**
IDC Protector Module, Category 5e, 4-pair, 110 Protector, 1/pack	**AX100827**

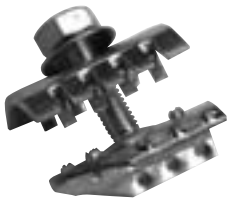
PVCI Ground Wire



PVCI Ground Wire

PVCI Ground Wire consists of 6, 10, 12 and 14 AWG Solid annealed copper conductors individually insulated with polyvinyl chloride compound.

X9905753 Bond Clamp



Bond Clamp

The Bond Clamps are used to attach the cable shield to the ground via Ground Wire. They are recommended for use with Riser Cables and Outside Plant Cables. The bond clamps consist of heavy plates and a securing nut with an integral spring washer. The plates are curved to conform to the contours of the cable. The upper plate has “teeth” which penetrate the polyethylene cable jacket and align with the perforations in the lower plate. The lower plate has burred perforations that penetrate into the metallic sheath of the cable.

Accessories

A Six-position Ground Bracket is used to terminate and ground up to 5 cable sheaths. The sixth position on the bracket is used to provide the ground return to the Distribution Terminal and is not available to ground a cable.

Two **Ground Wire Clips** on each side of the ground wire are required to ground one cable.

AX100226 Six-position Ground Bracket



X9908359 6 AWG Ground Wire Clip



Description	Belden Part Number
Bonding & Grounding	
PVCI Ground Wire	
PVCI Ground Wire, 6 AWG, Black, 75 m (246 ft.), Coil	**22214348**
PVCI Ground Wire, 10 AWG, Black, 50 m (164 ft.), Coil	**22214500**
PVCI Ground Wire, 12 AWG, Almond, 50 m (164 ft.), Coil	**22214700**
PVCI Ground Wire, 14 AWG, Olive Gray, 75 m (246 ft.), Coil	**22214900**
Bond Clamp	
Bond Clamp, QCF1A 19 mm (0.75 in.) cable and above	**X9905753**
Bond Clamp, QCF2A 19 mm (0.75 in.) cable and below	**X9905754**
Accessories	
Bond Clamp Accessories, Six-position Ground Bracket	**AX100226**
Bond Clamp Accessories, 6 AWG Ground Wire Clip	**X9908359**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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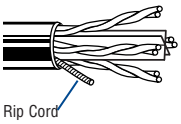
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist® 600e UTP Cable

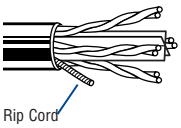
TIA/EIA-568-B.2-1, Category 6
Enhanced Category 6 Bonded-Pair Cables

Certified System Cable

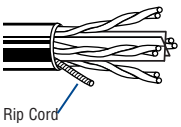
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
23 AWG Bonded-Pairs Solid Bare Copper Conductors • Patented E-Spline Center Member • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Black, White or Gray)																			
	7851A	NEC: CMR CEC: CMR	4	1000 A-1000	304.8 A-304.8	38.0 47.0	17.2 21.3	.227 x .315	5.77 x 8.00	8.2	3.0	65.6	1	1.9	80.3	78.5	70.8	100±12	20.0
													10	5.7	65.3	59.6	50.8	100±12	25.0
													31.25	10.2	57.9	47.7	40.9	100±15	25.0
													62.5	14.7	53.4	38.7	34.9	100±15	25.0
													100	18.9	50.3	31.4	30.8	100±15	25.0
													155	23.9	47.5	23.5	27.0	100±15	22.8
													200	27.5	45.8	18.3	24.8	100±15	21.7
													250	31.2	44.3	13.2	22.8	100±20	20.5
													350	37.7	40.2	4.5	19.9	100±22	19.8
													400	40.6	39.3	0.6	18.8	100±22	19.5
													500	46.2	37.8	>0*	16.8	100±22	18.4
													550	48.8	37.2	—	16.0	100±22	18.0
													600	51.4	36.6	—	15.2	100±22	17.6
	7851NH		4	1000 A-1000	304.8 A-304.8	39.0 48.0	17.7 21.8	.241 x .329	6.12 x 8.36	8.2	3.0	65.6	1	1.9	80.3	78.5	70.8	100±12	20.0
													10	5.7	65.3	59.6	50.8	100±12	25.0
													31.25	10.2	57.9	47.7	40.9	100±15	25.0
													62.5	14.7	53.4	38.7	34.9	100±15	25.0
													100	18.9	50.3	31.4	30.8	100±15	25.0
													155	23.9	47.5	23.5	27.0	100±15	22.8
													200	27.5	45.8	18.3	24.8	100±15	21.7
													250	31.2	44.3	13.2	22.8	100±20	20.5
													350	37.7	40.2	4.5	19.9	100±22	19.8
													400	40.6	39.3	0.6	18.8	100±22	19.5
													500	46.2	37.8	>0*	16.8	100±22	18.4
													550	48.8	37.2	—	16.0	100±22	18.0
													600	51.4	36.6	—	15.2	100±22	17.6
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Black, White or Gray)																			
	7852A	NEC: CMP CEC: CMP	4	1000 A-1000 †	304.8 A-304.8	40.0 49.0	18.1 22.2	.218 x .290	5.54 x 7.37	8.2	3.0	65.6	1	1.9	80.3	78.5	70.8	100±12	20.0
													10	5.7	65.3	59.6	50.8	100±12	25.0
													31.25	10.2	57.9	47.7	40.9	100±15	25.0
													62.5	14.7	53.4	38.7	34.9	100±15	25.0
													100	18.9	50.3	31.4	30.8	100±15	25.0
													155	23.9	47.5	23.5	27.0	100±15	22.8
													200	27.5	45.8	18.3	24.8	100±15	21.7
													250	31.2	44.3	13.2	22.8	100±20	20.5
													350	37.7	40.2	4.5	19.9	100±22	19.8
													400	40.6	39.3	0.6	18.8	100±22	19.5
													500	46.2	37.8	>0*	16.8	100±22	18.4
													550	48.8	37.2	—	16.0	100±22	18.0
													600	51.4	36.6	—	15.2	100±22	17.6



Third party verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1
Jacket sequentially marked at 2 ft. intervals. Features Descending Length Marking.



Third party verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1
Jacket sequentially marked at 1 meter intervals. Features Descending Length Marking.



† A-1000 ft. put-up not available in Red.

Third party verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1
Jacket sequentially marked at 2 ft. intervals. Features descending Length marking.

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

*PSUM ACR >0 is guaranteed to 460 MHz

Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

Color Codes: DataTwist 600e

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

DataTwist 600e: Beyond Category 6

Belden® DataTwist 600e data cable is a revolutionary UTP cable engineered specifically to perform well beyond Category 6 standards. While Category 6 cable is specified only to 250 MHz, DataTwist 600e is the only Cat 6 UTP cable in the industry fully characterized with guaranteed performance to 600 MHz. So users have far more headroom to compensate for unforeseen factors that can inhibit the performance of a cabling system today…and protection of their technology investment for the future.

Handy Cable Preparation Tool Speeds Installation Of Bonded-Pair Cables

You know the high performance benefits of using data cables featuring Belden's unique Bonded-Pair technology. The Belden Cable Preparation Tool (1797B) now makes it faster and easier than ever to prepare cables for connector termination providing special features that help separate twisted pairs. The Cable Preparation Tool is packed with every spool of DataTwist 600e. See page 15.40 for more information.



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GigaFlex 4800LX Cable Series

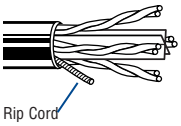
ANSI/TIA/EIA-568-B.2-1, Category 6
Enhanced Category 6 Nonbonded-pair Cables

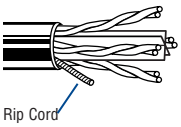
Certified System Cable

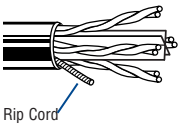
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
23 AWG Solid Bare Copper Conductors • Twisted Pairs • Central Cross Web Filler • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket																			
White - Reel	**24586385**	NEC:	4	1000	304.8	29.1	13.2	.245	6.22	6.6	3.0	50	0.772	1.7	80.0	78.3	74.0	100±12	—
Blue - Reel	**24586985**	CMR											1.0	1.8	78.3	76.5	71.8	100±12	20.0
		CEC:											4.0	3.4	69.3	65.9	59.7	100±12	23.0
		CMR											8.0	4.8	64.8	60.0	53.7	100±12	25.0
													10.0	5.3	63.3	58.0	51.8	100±12	25.0
													16.0	6.8	60.3	53.5	47.7	100±12	25.0
													20.0	7.6	58.8	51.2	45.7	100±12	25.0
													25.0	8.5	57.3	48.8	43.8	100±15	24.6
													31.25	9.6	55.9	46.3	41.9	100±15	24.2
													62.5	13.8	51.4	37.6	35.8	100±15	23.0
													100.0	17.8	48.3	30.5	31.8	100±15	22.1
													200.0	26.2	43.8	17.6	25.7	100±15	20.9
													250.0	29.7	42.3	12.6	23.8	100±20	20.5
													300.0	33.0	41.2	8.2	22.2	100±20	20.2
													350.0	36.1	40.2	4.1	20.9	100±22	19.9
													400.0	39.0	39.3	0.3	19.7	100±22	19.7
Jacket sequentially market at 2 ft. intervals.													450.0◗	41.8	38.5	-3.3	18.7	100±22	19.5
Featuring Descending Length Marking.													500.0◗	44.5	37.8	-6.7	17.8	100±22	19.3
Third party verified to TIA/EIA-568-B.2-1, Category 6													550.0◗	47.1	37.2	-9.9	16.9	100±22	19.1
Non-Plenum • Polyolefin Insulation - LSZH Polymer Alloy																			
Purple - Reel	**24588085**	NEC:	4	1000	304.8	31.1	14.1	.246	6.10	6.6	3.0	50	0.772	1.7	80.0	78.3	74.0	100±12	—
		CMR											1.0	1.8	78.3	76.5	71.8	100±12	20.0
		CEC:											4.0	3.4	69.3	65.9	59.7	100±12	23.0
		CMR											8.0	4.8	64.8	60.0	53.7	100±12	25.0
													10.0	5.3	63.3	58.0	51.8	100±12	25.0
													16.0	6.8	60.3	53.5	47.7	100±12	25.0
													20.0	7.6	58.8	51.2	45.7	100±12	25.0
													25.0	8.5	57.3	48.8	43.8	100±15	24.6
													31.25	9.6	55.9	46.3	41.9	100±15	24.2
													62.5	13.8	51.4	37.6	35.8	100±15	23.0
													100.0	17.8	48.3	30.5	31.8	100±15	22.1
													200.0	26.2	43.8	17.6	25.7	100±15	20.9
													250.0	29.7	42.3	12.6	23.8	100±20	20.5
													300.0	33.0	41.2	8.2	22.2	100±20	20.2
													350.0	36.1	40.2	4.1	20.9	100±22	19.9
													400.0	39.0	39.3	0.3	19.7	100±22	19.7
Jacket sequentially market at 2 ft. intervals.													450.0◗	41.8	38.5	-3.3	18.7	100±22	19.5
Featuring Descending Length Marking.													500.0◗	44.5	37.8	-6.7	17.8	100±22	19.3
Third party verified to TIA/EIA-568-B.2-1, Category 6													550.0◗	47.1	37.2	-9.9	16.9	100±22	19.1
Plenum • 100% FEP Insulation - LSZH Polymer Alloy																			
White - Reel	**24587385**	NEC:	4	1000	304.8	30.7	13.9	.229	5.81	6.6	3.0	50	0.772	1.7	80.0	78.3	74.0	100±12	—
Blue - Reel	**24587985**	CMP											1.0	1.8	78.3	76.5	71.8	100±12	20.0
		CEC:											4.0	3.4	69.3	65.9	59.7	100±12	23.0
		CMP											8.0	4.8	64.8	60.0	53.7	100±12	25.0
													10.0	5.3	63.3	58.0	51.8	100±12	25.0
													16.0	6.8	60.3	53.5	47.7	100±12	25.0
													20.0	7.6	58.8	51.2	45.7	100±12	25.0
													25.0	8.5	57.3	48.8	43.8	100±15	24.6
													31.25	9.6	55.9	46.3	41.9	100±15	24.2
													62.5	13.8	51.4	37.6	35.8	100±15	23.0
													100.0	17.8	48.3	30.5	31.8	100±15	22.1
													200.0	26.2	43.8	17.6	25.7	100±15	20.9
													250.0	29.7	42.3	12.6	23.8	100±20	20.5
													300.0	33.0	41.2	8.2	22.2	100±20	20.2
													350.0	36.1	40.2	4.1	20.9	100±22	19.9
													400.0	39.0	39.3	0.3	19.7	100±22	19.7
Jacket sequentially market at 2 ft. intervals.													450.0◗	41.8	38.5	-3.3	18.7	100±22	19.5
Featuring Descending Length Marking.													500.0◗	44.5	37.8	-6.7	17.8	100±22	19.3
Third party verified to TIA/EIA-568-B.2-1, Category 6													550.0◗	47.1	37.2	-9.9	16.9	100±22	19.1

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

◗Values provided for information only.







Color Codes: GigaFlex 4800LX

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

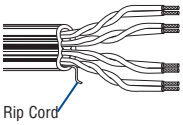
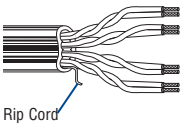
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

MediaTwist® UTP Cable

TIA/EIA-568-B.2-1, Category 6
Enhanced Category 6 Bonded-Pair Cables

Certified System Cable

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
23 AWG Bonded-Pairs Solid Bare Copper Conductor • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Blue, Red, Yellow, Orange, Green, Gold, Purple, White, Black or Gray)																			
 Rip Cord	**1872A**	NEC: CMR CEC: CMR	4	1000 A-1000 *	304.8 A-304.8	37.0	16.8	.365 x .165	9.27 x 4.19	9.0	3.0	49.2	1	1.9	72.3	70	64.8	100±12	20.0
													4	3.7	63.3	59	52.8	100±12	23.0
													8	5.3	58.8	53	46.7	100±12	24.5
													10	5.9	57.3	51	44.8	100±12	25.0
													16	7.5	54.3	46	40.7	100±12	25.0
													25	9.5	51.4	42	36.8	100±15	24.3
													31.25	10.6	49.9	39	34.9	100±15	23.6
													62.5	15.4	45.4	30	28.9	100±15	21.5
													100	19.8	42.3	25	24.8	100±15	21.0
													155	25.1	39.5	14	20.9	100±15	21.0
													200	29.0	37.8	10	18.8	100±15	21.0
*A-1000 ft. put-up not available in Black.													250	32.8	36.3	3	16.8	100±20	18.0
Features Descending Length Marking.													300	35.2	35.2	>0	15.2	100±20	18.0
Jacket sequentially marked at 2 ft. intervals.													350	39.8	34.2	—	13.9	100±22	17.0
U.S. Patents 5,606,151; 5,734,126; 5,821,467													400◗	43.0	—	—	—	100±32	14.0
Third party verified to TIA/EIA-568-B.2-1, Category 6													500◗	49.0	—	—	—	100±32	14.0
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Blue, Natural, Gray, Red, Yellow, Orange, Green, Gold, Purple, White or Black)																			
 Rip Cord	**1874A**	NEC: CMP CEC: CMP	4	1000 A-1000 **	304.8 A-304.8	37.0	16.8	.365 x .165	9.27 x 4.19	9.0	3.0	49.2	1	1.9	72.3	70	64.8	100±12	20.0
													4	3.7	63.3	59	52.8	100±12	23.0
													8	5.3	58.8	53	46.7	100±12	24.5
													10	5.9	57.3	51	44.8	100±12	25.0
													16	7.5	54.3	46	40.7	100±12	25.0
													25	9.5	51.4	42	36.8	100±15	24.3
													31.25	10.6	49.9	39	34.9	100±15	23.6
													62.5	15.4	45.4	30	28.9	100±15	21.5
													100	19.8	42.3	25	24.8	100±15	21.0
													155	25.1	39.5	14	20.9	100±15	21.0
													200	29.0	37.8	10	18.8	100±15	21.0
**A-1000 ft. put-up not available in Black.													250	32.8	36.3	3	16.8	100±20	18.0
Features Descending Length Marking.													300	35.2	35.2	>0	15.2	100±20	18.0
Jacket sequentially marked at 2 ft. intervals.													350	39.8	34.2	—	13.9	100±22	17.0
U.S. Patents 5,606,151; 5,734,126; 5,821,467													400◗	43.0	—	—	—	100±32	14.0
Third party verified to TIA/EIA-568-B.2-1, Category 6													500◗	49.0	—	—	—	100±32	14.0

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

◗Values provided for information only.

Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

Color Codes: MediaTwist

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Get the Bonded-Pairs Cable Preparation Tool
See page 15.40 for details.
(Part No. 1797B)



Teflon is a DuPont trademark.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

GigaFlex 2400 Cable Series

TIA/EIA-568-B.2-1, Category 6
Enhanced Category 6 Nonbonded-pair Cables

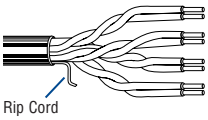
Certified System Cable

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)

Non-Plenum • Polyolefin Insulation • PVC Jacket

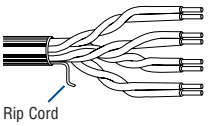
White, Reel-in-Box	**24566315**	NEC:	4	1000	304.8	26.0	11.8	.214	5.44	9.38	5.0	330	0.772	1.8	75.0	73.2	70.0	100±15	19.7
Blue, Reel-in-Box	**24566915**	CMR											1.0	2.0	73.3	71.3	67.8	100±15	20.0
White, Reel	**24566345**	CEC:											4.0	3.7	64.3	60.6	55.8	100±15	23.0
Blue, Reel	**24566945**	CMR											8.0	5.2	59.8	54.6	49.7	100±15	24.5
													10.0	5.8	58.3	52.5	47.8	100±15	25.0
													16.0	7.4	55.2	47.9	43.7	100±15	25.0
													20.0	8.3	53.8	45.5	41.8	100±15	25.0
													25.0	9.3	52.3	43.1	39.8	100±15	24.3
													31.25	10.4	50.9	40.5	37.9	100±15	23.6
													62.5	15.0	46.4	31.4	31.9	100±15	21.5
													100.0	19.3	43.3	24.0	27.8	100±15	20.1
													200.0	28.3	38.8	10.5	21.8	100±22	18.0
													250.0	32.1	37.3	5.3	19.8	100±32	17.3
													300.0◗	35.6	36.1	0.5	18.3	100±32	16.8
													350.0◗	38.9	35.1	-3.7	16.9	100±32	16.3
													400.0◗	42.0	34.3	-7.7	15.8	100±32	15.9
													450.0◗	45.0	33.5	-11.5	14.7	100±32	15.5



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-B.2-1, Category 6

Non-Plenum • Polyolefin Insulation - LSZH Polymer Alloy

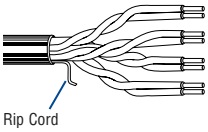
Purple, Reel	**24568005**	NEC:	4	1000	304.8	28.0	12.7	.214	5.44	9.38	5.0	330	0.772	1.8	75.0	73.2	70.0	100±15	19.7
		CMR											1.0	2.0	73.3	71.3	67.8	100±15	20.0
		CEC:											4.0	3.7	64.3	60.6	55.8	100±15	23.0
		CMR											8.0	5.2	59.8	54.6	49.7	100±15	24.5
													10.0	5.8	58.3	52.5	47.8	100±15	25.0
													16.0	7.4	55.2	47.9	43.7	100±15	25.0
													20.0	8.3	53.8	45.5	41.8	100±15	25.0
													25.0	9.3	52.3	43.1	39.8	100±15	24.3
													31.25	10.4	50.9	40.5	37.9	100±15	23.6
													62.5	15.0	46.4	31.4	31.9	100±15	21.5
													100.0	19.3	43.3	24.0	27.8	100±15	20.1
													200.0	28.3	38.8	10.5	21.8	100±22	18.0
													250.0	32.1	37.3	5.3	19.8	100±32	17.3
													300.0◗	35.6	36.1	0.5	18.3	100±32	16.8
													350.0◗	38.9	35.1	-3.7	16.9	100±32	16.3
													400.0◗	42.0	34.3	-7.7	15.8	100±32	15.9
													450.0◗	45.0	33.5	-11.5	14.7	100±32	15.5



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-B.2-1, Category 6

Plenum • 100% FEP Insulation • Low-Smoke PVC Jacket

White, Reel-in-Box	**24567315**	NEC:	4	1000	304.8	24.0	10.9	.210	5.33	9.38	5.0	330	0.772	1.8	75.0	73.2	70.0	100±15	19.7
Blue, Reel-in-Box	**24567915**	CMP											1.0	2.0	73.3	71.3	67.8	100±15	20.0
White, Reel	**24567345**	CEC:											4.0	3.7	64.3	60.6	55.8	100±15	23.0
Blue, Reel	**24567945**	CMP											8.0	5.2	59.8	54.6	49.7	100±15	24.5
													10.0	5.8	58.3	52.5	47.8	100±15	25.0
													16.0	7.4	55.2	47.9	43.7	100±15	25.0
													20.0	8.3	53.8	45.5	41.8	100±15	25.0
													25.0	9.3	52.3	43.1	39.8	100±15	24.3
													31.25	10.4	50.9	40.5	37.9	100±15	23.6
													62.5	15.0	46.4	31.4	31.9	100±15	21.5
													100.0	19.3	43.3	24.0	27.8	100±15	20.1
													200.0	28.3	38.8	10.5	21.8	100±22	18.0
													250.0	32.1	37.3	5.3	19.8	100±32	17.3
													300.0◗	35.6	36.1	0.5	18.3	100±32	16.8
													350.0◗	38.9	35.1	-3.7	16.9	100±32	16.3
													400.0◗	42.0	34.3	-7.7	15.8	100±32	15.9
													450.0◗	45.0	33.5	-11.5	14.7	100±32	15.5



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

◗Values provided for information only.

Color Codes: GigaFlex 2400

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

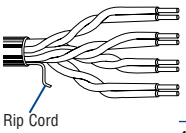
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DataTwist® 350 UTP Cable

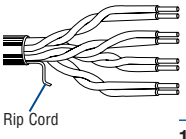
TIA/EIA-568-B.2, Category 5e
Enhanced Category 5e Bonded-Pair Cables

Certified System Cable

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
24 AWG Bonded-Pairs Solid Bare Copper Conductors • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Red, Orange, White, Black, Yellow, Green, Blue, Purple, Light Gray or Gray)																			
 Rip Cord	**1700A**	NEC: CM CEC: CM	4	U-1000 1000 † 1640 † 3000 † 3280 †	U-304.8 304.8 500.0 914.4 1000.0	22.0 22.0 36.1 63.0 72.2	10.0 10.0 16.4 28.6 32.8	.200	5.08	9.0	3.0	66.0	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.8 42.7 40.8 36.7 32.8 30.9 24.9 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±18 100±20 100±22	20.0 23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0
	1702A*	NEC: CM CEC: CM	2x4	1000 * 1640 *	304.8 500.0	45.0 73.8	20.4 33.5	.200 x .415	5.08 x 10.54										
	1700R	NEC: CMR CEC: CMR	4	U-1000 †† 1000 †† 3000 ††	U-304.8 304.8 914.4	22.0 22.0 63.0	10.0 10.0 28.6	.204	5.18										

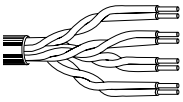
*1702A is Siamese version of 1700A and is available in Blue or Light Gray only.
†1000 ft. put-up not available in Gray. 3000 ft. put-up available in Red, Blue, White or Lt. Gray only. 1640 ft. available in Lt. Gray or Blue only. 3280 ft. available in Lt. Gray only.
††1700R is not available in Black nor Medium Gray. 3000 ft. put-up available in Red, Blue, Purple, White or Light Gray only.
Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 2 ft. intervals. Features Descending Length Marking. • U.S. Patents 5,606,151 and 5,734,126

Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Gray, Yellow, Green, Blue, Purple, Natural or Black)

 Rip Cord	**1701A**	NEC: CMP CEC: CMP	4	U-1000 1000 3000 †	U-304.8 304.8 914.4	23.0 24.0 69.0	10.5 10.9 31.3	.195	4.95	9.0	3.0	66.0	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.8 42.7 40.8 36.7 32.8 30.9 24.9 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0
	1703A**	NEC: CMP CEC: CMP	2x4	1000 ††	304.8	46.0	20.9	.195 x .405	4.95 x 10.29										

**1703A is Siamese version of 1701A.
†3000 ft. put-up available in Blue or Natural only.
††1000 ft. put-up available in Blue or Natural only.
Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 2 ft. intervals. Features Descending Length Marking. • U.S. Patents 5,606,151 and 5,734,126

Plenum • FEP Teflon Insulation • FEP Jacket (Available in Blue or White)

	**1701LC**	NEC: Limited Combustible FHC 25/50 CMP CEC: CMP	4	U-1000 1000	U-304.8 304.8	23.0 24.0	10.5 10.9	.187	4.75	9.0	3.0	66.0	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.8 42.7 40.8 36.7 32.8 30.9 24.9 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0

1701LC does not have a rip cord.
Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 2 ft. intervals. Features Descending Length Marking. • U.S. Patents 5,606,151 and 5,734,126

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: DataTwist 350

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Get the Bonded-Pairs Cable Preparation Tool
See page 15.40 for details.
(Part No. 1797B)



Teflon is a DuPont trademark.

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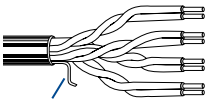
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

GigaFlex 1200 Cable Series

TIA/EIA-568-B.2, Category 5E
Enhanced Category 5 Nonbonded-pair Cables

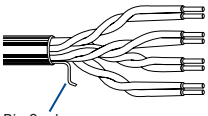
Certified System Cable

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket																			
White, Box	**24570166**	NEC:	4	1000	304.8	24.0	10.9	.186	4.72	9.38	5.0	330	0.772	1.8	69.0	67.2	63.0	100±15	—
Blue, Box	**24570161**	CMR											1.0	2.0	67.3	65.3	60.8	100±15	20.0
White, Reel	**24570460**	CEC:											4.0	4.0	58.3	54.3	48.7	100±15	23.0
Blue, Reel	**24570452**	CMR											8.0	5.7	53.8	48.1	42.7	100±15	24.5
													10.0	6.3	52.3	46.0	40.8	100±15	25.0
													16.0	8.1	49.3	41.2	36.7	100±15	25.0
													20.0	9.1	47.8	38.7	34.7	100±15	25.0
													25.0	10.2	46.3	36.1	32.8	100±15	24.3
													31.25	11.5	44.9	33.4	30.9	100±15	23.6
													62.5	16.7	40.4	23.7	24.8	100±15	21.5
													100.0	21.6	37.3	15.7	20.8	100±15	20.1
													200.0◗	31.9	32.8	0.9	14.7	100±22	18.0
													250.0◗	36.3	31.3	-4.9	12.8	100±22	17.3
													300.0◗	40.3	30.2	-10.2	11.2	100±22	16.8
													350.0◗	44.2	29.2	-15.0	9.9	100±22	16.3



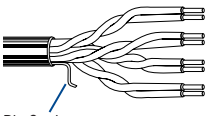
Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-B.2, Category 5e

Non-Plenum • Polyolefin Insulation - LSZH Polymer Alloy																			
Purple	**24570157**	NEC:	4	1000	304.8	25.0	11.3	.198	5.03	9.38	5.0	330	0.772	1.8	69.0	67.2	63.0	100±15	—
		CMR											1.0	2.0	67.3	65.3	60.8	100±15	20.0
		CEC:											4.0	4.0	58.3	54.3	48.7	100±15	23.0
		CMR											8.0	5.7	53.8	48.1	42.7	100±15	24.5
													10.0	6.3	52.3	46.0	40.8	100±15	25.0
													16.0	8.1	49.3	41.2	36.7	100±15	25.0
													20.0	9.1	47.8	38.7	34.7	100±15	25.0
													25.0	10.2	46.3	36.1	32.8	100±15	24.3
													31.25	11.5	44.9	33.4	30.9	100±15	23.6
													62.5	16.7	40.4	23.7	24.8	100±15	21.5
													100.0	21.6	37.3	15.7	20.8	100±15	20.1
													200.0◗	31.9	32.8	0.9	14.7	100±22	18.0
													250.0◗	36.3	31.3	-4.9	12.8	100±22	17.3
													300.0◗	40.3	30.2	-10.2	11.2	100±22	16.8
													350.0◗	44.2	29.2	-15.0	9.9	100±22	16.3



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-B.2, Category 5e

Plenum • Dual Insulation: Polyolefin / FEP • Low-Smoke PVC Jacket																			
White, Box	**24570810**	NEC:	4	1000	304.8	22.0	9.98	.188	4.78	9.38	5.0	330	0.772	1.8	69.0	67.2	63.0	100±15	—
Blue, Box	**24570800**	CMP											1.0	2.0	67.3	65.3	60.8	100±15	20.0
White, Reel	**24570808**	CEC:											4.0	4.0	58.3	54.3	48.7	100±15	23.0
Blue, Reel	**24570812**	CMP											8.0	5.7	53.8	48.1	42.7	100±15	24.5
													10.0	6.3	52.3	46.0	40.8	100±15	25.0
													16.0	8.1	49.3	41.2	36.7	100±15	25.0
													20.0	9.1	47.8	38.7	34.7	100±15	25.0
													25.0	10.2	46.3	36.1	32.8	100±15	24.3
													31.25	11.5	44.9	33.4	30.9	100±15	23.6
													62.5	16.7	40.4	23.7	24.8	100±15	21.5
													100.0	21.6	37.3	15.7	20.8	100±15	20.1
													200.0◗	31.9	32.8	0.9	14.7	100±22	18.0
													250.0◗	36.3	31.3	-4.9	12.8	100±22	17.3
													300.0◗	40.3	30.2	-10.2	11.2	100±22	16.8
													350.0◗	44.2	29.2	-15.0	9.9	100±22	16.3



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

◗Values provided for information only.

Color Codes: GigaFlex 1200

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

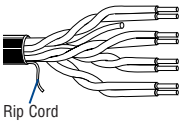
견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist® 6 UTP Cable

TIA/EIA-568-B.2-1, Category 6 Nonbonded-Pair Cables

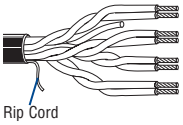
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
23 AWG Solid Bare Copper Conductors • Twisted Pairs • Central Rod Filler • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)																			
	7881A	NEC: CMR CEC: CMR	4	1000 A-1000	304.8 A-304.8	30.0 33.0	13.6 15.0	.241	6.12	8.2	5.0	330	1	2.0	72.3	70.3	64.8	100±15	20.0
													10	6.0	57.3	51.3	44.8	100±15	25.0
													20	8.5	52.8	44.3	38.8	100±15	25.0
													31.25	10.7	49.9	39.2	34.9	100±15	23.6
													62.5	15.4	45.4	30.0	28.9	100±15	21.5
													100	19.8	42.3	22.5	24.8	100±15	20.1
													200	29.0	37.8	8.8	18.8	100±22	18.0
													250	32.8	36.3	3.5	16.8	100±32	17.3



Rip Cord

Jacket sequentially marked at 2 ft. intervals.
Features Descending Length Marking.
Third party verified to TIA/EIA-568-B.2-1, Category 6

Plenum • Dual FRPO/FEP Insulation • Flamarrest® Jacket (Avail. in Red, Orange, Yellow, Green, Blue, Purple, Gray, Natural or Black)																			
	7882A	NEC: CMP CEC: CMP	4	1000 A-1000	304.8 A-304.8	29.0 32.0	13.2 14.5	.224	5.69	8.2	5.0	330	1	2.0	72.3	70.3	64.8	100±15	20.0
													10	6.0	57.3	51.3	44.8	100±15	25.0
													20	8.5	52.8	44.3	38.8	100±15	25.0
													31.25	10.7	49.9	39.2	34.9	100±15	23.6
													62.5	15.4	45.4	30.0	28.9	100±15	21.5
													100	19.8	42.3	22.5	24.8	100±15	20.1
													200	29.0	37.8	8.8	18.8	100±22	18.0
													250	32.8	36.3	3.5	16.8	100±32	17.3



Rip Cord

Jacket sequentially marked at 2 ft. intervals.
Features Descending Length Marking.
Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • FRPO = Flame-retardant Polyolefin • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

For either T568-A or T568-B configurations.

Color Codes: DataTwist 6

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

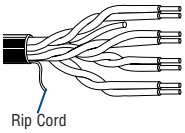
견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist 6 Limited Combustible UTP Cable

TIA/EIA 568-B.2-1, Category 6
Enhanced Category 6 Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
23 AWG Bonded-Pairs • Solid Bare Copper Conductors • Twisted Pairs • Central Rod Filler • Rip Cord • See Color Code Chart (below)																			
Plenum • FEP Teflon® Insulation • FEP Jacket (Available in Light Blue or White)																			
	7813LC	NEC: Limited Combustible FHC 25/50 CMP CEC: CMP	4	1000 U-1000	304.8 U-304.8	35.0	15.89	.214	5.44	8.2	5.0	330	1	2.0	72.3	70.3	64.8	100±15	20.0
													4	3.8	63.3	59.5	52.8	100±15	23.0
													8	5.3	58.8	53.4	46.7	100±15	24.5
													10	6.0	57.3	51.3	44.8	100±15	25.0
													16	7.6	54.3	46.7	40.7	100±15	25.0
													20	8.5	52.8	44.3	38.8	100±15	25.0
													25	9.5	51.3	41.8	36.8	100±15	24.3
													31.25	10.7	49.9	39.2	34.9	100±15	23.6
													62.5	15.4	45.4	30.0	28.9	100±15	21.5
													100	19.8	42.3	22.5	24.8	100±15	20.1
													155	25.2	39.5	14.3	20.9	100±22	18.8
													200	29.0	37.8	8.8	18.8	100±22	18.0
													250	32.8	36.3	3.5	16.8	100±32	17.3



Jacket sequentially marked at 2 ft. intervals.
Features Descending Length Marking.
Third party verified to TIA/EIA 568-B.2-1, Category 6
U.S. Patents 5,606,151 and 5,734,126

ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • NEXT = Near-end Crosstalk • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Teflon is a DuPont trademark.

Color Codes: DataTwist 6 LC

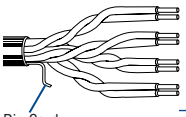
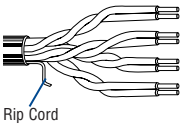
Pair No.	Color Combination
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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DataTwist® 5e+ UTP Cable

TIA/EIA-568-B.2, Category 5e
Enhanced Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray or White)																			
 Rip Cord	**1500A**	NEC: CM CEC: CM	4	1000 A-1000	304.8 A-304.8	23.0 26.0	10.4 11.8	.190	4.83	9.0	3.0	200	1	2.0	65.3	63.3	60.8	100±12	20.0
													4	4.0	56.3	52.3	48.7	100±12	23.0
													8	5.7	51.8	46.1	42.7	100±12	24.5
													10	6.4	50.3	43.9	40.8	100±12	25.0
													16	8.1	47.3	39.1	36.7	100±12	25.0
													25	10.3	44.3	34.1	32.8	100±15	24.3
													31.25	11.6	42.9	31.3	30.9	100±15	23.6
													62.5	16.8	38.4	21.6	24.9	100±15	21.5
	1500R	NEC: CMR CEC: CMR	4	1000 A-1000	304.8 A-304.8	24.0 27.0	10.9 12.3	.194	4.93				100	21.7	35.3	17.1	20.8	100±15	20.1
													155	27.7	32.5	4.7	16.9	100±18	19.0
													200	32.0	30.8	3.0	14.7	100±20	19.0
													250	36.4	29.3	—	12.8	100±20	18.0
													350	44.3	27.2	—	9.9	100±22	17.0
Jacket sequentially marked at 2 ft. intervals Features Descending Length Marking. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Plenum • Dual FRPO/FEP Insulation • Flamarrest® Jacket (Avail. in Red, Orange, Yellow, Green, Blue, Gray, White or Natural)																			
 Rip Cord	**1501A**	NEC: CMP CEC: CMP	4	1000 † A-1000	304.8 A-304.8	23.0 26.0	10.4 11.8	.190	4.83	9.0	3.0	200	1	2.0	65.3	63.3	60.8	100±12	20.0
													4	4.0	56.3	52.3	48.7	100±12	23.0
													8	5.7	51.8	46.1	42.7	100±12	24.5
													10	6.4	50.3	43.9	40.8	100±12	25.0
													16	8.1	47.3	39.1	36.7	100±12	25.0
													25	10.3	44.3	34.1	32.8	100±15	24.3
													31.25	11.6	42.9	31.3	30.9	100±15	23.6
													62.5	16.8	38.4	21.6	24.9	100±15	21.5
													100	21.7	35.3	17.1	20.8	100±15	20.1
													155	27.7	32.5	4.7	16.9	100±18	19.0
													200	32.0	30.8	3.0	14.7	100±20	19.0
													250	36.4	29.3	—	12.8	100±20	18.0
													350	44.3	27.2	—	9.9	100±22	17.0
†1000 ft. put-up not available in Red. Jacket sequentially marked at 2 ft. intervals Features Descending Length Marking.. Third party verified to TIA/EIA-568-B.2, Category 5e																			

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • FRPO = Flame-retardant Polyolefin • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: DataTwist 5e+

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Get the Bonded-Pairs Cable Preparation Tool
See page 15.40 for details.
(Part No. 1797B)



Teflon is a DuPont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

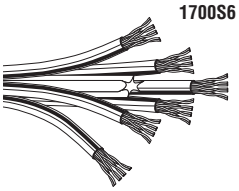
DataTwist 350 Composite UTP Cable

ANSI/TIA/EIA 568-B.2, Category 5e
Banana Peel® Jacketless Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

24 AWG Bonded-Pairs • Solid Bare Copper Conductors • Spline Filler • Rip Cord • See Color Code Chart (below)

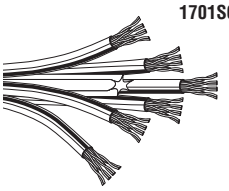
Non-Plenum • Polyolefin Insulation • PVC Inner Jacket (Available in Light Blue or Gray) • **No Overall Jacket**



1700S6	NEC:	24	500	152.4	77.5	35.19	.204	5.18	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0
	CMR		1000	304.8	149.0	67.65	Bundled:					10	6.4	50.3	43.9	40.8	100±12	25.0
	CEC:						.600	15.24				16	8.1	47.3	39.1	36.7	100±12	25.0
	CMG											31.25	11.6	42.9	31.3	30.9	100±15	23.6
												62.5	16.8	38.4	21.6	24.9	100±15	21.5
												100	21.7	35.3	17.1	20.8	100±15	20.1
												200	32.0	30.8	3.0	14.7	100±20	19.0
												250	36.4	29.3	>0.0	12.8	100±20	18.0
												350	44.3	27.2	—	9.9	100±22	17.0

Bundled version of 1700R.
U.S. Patents 5,606,151; 5,734,126; 7,049,523.
Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e

Plenum • FEP Insulation • Flamarrest® Inner Jacket (Available in Blue or Natural) • **No Overall Jacket**



1701S6	NEC:	24	500	152.4	81.5	37.00	.195	4.95	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0
	CMP		1000	304.8	157.0	71.28	Bundled:					10	6.4	50.3	43.9	40.8	100±12	25.0
	CEC:						.600	15.24				16	8.1	47.3	39.1	36.7	100±12	25.0
	CMP											31.25	11.6	42.9	31.3	30.9	100±15	23.6
												62.5	16.8	38.4	21.6	24.9	100±15	21.5
												100	21.7	35.3	17.1	20.8	100±15	20.1
												200	32.0	30.8	3.0	14.7	100±20	19.0
												250	36.4	29.3	>0.0	12.8	100±20	18.0
												350	44.3	27.2	—	9.9	100±22	17.0

Bundled version of 1701A.
U.S. Patents 5,606,151; 5,734,126; 7,049,523.
Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e

UTP = Unshielded Twisted Pair(s) • NEXT = Near-end Crosstalk • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • RL = Return Loss

Color Codes: DT 350 Composite

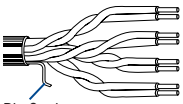
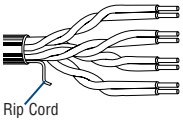
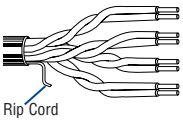
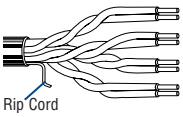
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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DataTwist® 5e UTP Cable

TIA/EIA-568-B.2, Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Dark Gray or Blue)																			
 Rip Cord	**1588A**	NEC: CM CEC: CM	2	U-1000 1000 1640†	U-304.8 304.8 500.0	14.0 15.0 24.6	6.4 6.8 11.2	.183	4.65	9.38	5.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40,8 36.0 28.2 19.0 10,3 1.0	60.8 48.7 40.8 36.7 30.9 24.9 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
	1588R	NEC: CMR CEC: CMR	2	U-1000†† 1000††	U-304.8 304.8	14.0 15.0	6.4 6.8	.183	4.65										
†1640 ft. put-up available in Dark Gray only. ††U-1000 ft. and 1000 ft. put-ups available in Blue only Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in White, Black, Gray, Blue, Red, Orange, Yellow, Green or Pink)																			
 Rip Cord	**1583A**	NEC: CM CEC: CM	4	U-1000 1000 1640† 3000†	U-304.8 304.8 500.0 914.4	21.0 21.0 34.4 63.0	9.5 9.5 15.7 28.6	.195	4.95	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40,8 36.0 28.2 19.0 10,3 1.0	60.8 48.7 40.8 36.7 30.9 24.9 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
	1583R	NEC: CMR CEC: CMR	4	U-1000†† 1000†† 3000††	U-304.8 304.8 914.4	22.0 22.0 63.0	10.0 10.0 28.6	.197	5.00										
†1640 ft. put-up available in Dark Gray or Blue only. 3000 ft. put-up available in Dark Gray, White or Blue only. ††1583R is not available in Black. 3000 ft. put-ups available in Dark Gray, White or Blue only. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Non-Plenum • Polyolefin Insulation • Fluorescent Pink PVC Jacket																			
DataBrite®  Rip Cord	**1583B**	NEC: CMR CEC: CMR	4	U-1000 1000	U-304.8 304.8	19.0 20.0	8.6 9.1	.195	4.95	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40,8 36.0 28.2 19.0 10,3 1.0	60.8 48.7 40.8 36.7 30.9 24.9 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Non-Plenum • Polyolefin Insulation • UV Resistant PVC Jacket (Available in Gray, White or Ivory)																			
Indoor/Outdoor  Rip Cord	**1594A**	NEC: CMR/CMX CEC: CMR/CMX	4	U-1000	U-304.8	26.0	11.8	.220	5.58	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40,8 36.0 28.2 19.0 10,3 1.0	60.8 48.7 40.8 36.7 30.9 24.9 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Outside Plant • Polyolefin Insulation • Black Gel-filled Polyethylene Jacket																			
Outdoor  Rip Cord	**7997A**		4	1000	304.8	38.0	17.2	.251	6.38	8.90	3.0	66.0	1 4 10 16 31.25 62.5 100 200	2.0 4.0 6.4 8.1 11.4 16.4 21.0 30.5	68.3 59.3 53.3 50.2 45.9 41.4 38.3 33.8	66.3 55.3 46.9 42.1 34.5 25.0 17.3 3.3	64.8 52.8 44.8 40.7 34.9 28.9 24.8 18.8	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±22	20.0 23.0 25.0 25.0 23.6 21.5 20.1 18.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: DataTwist 5e

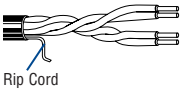
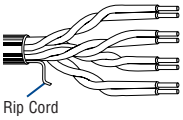
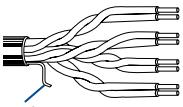
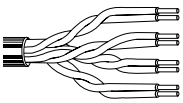
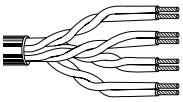
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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DataTwist® 5e UTP Cable

TIA/EIA-568-B.2, Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																			
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Natural or Blue)																			
 Rip Cord	**1590A**	NEC: CMP CEC: CMP FT6	2	1000	304.8	16.0	7.3	.175	4.44	9.38	5.0	330	1 10 16 31.25 62.5 100 200	2.0 6.5 8.2 11.7 17.0 22.0 32,0	62.3 47.3 44.3 39.9 35.4 32.3 27,8	60.3 49.2 40,8 36.0 28.2 19.0 10,3 1.0	60.8 40.8 36.7 30.9 24.8 20.8 14,7	100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 25.0 25.0 23.6 21.5 20.1 15,0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Gray, White, Black, Pink, Natural or Blue)																			
 Rip Cord	**1585A**	NEC: CMP CEC: CMP FT6	4	U-1000 1000 3000†	U-304.8 304.8 914.6	23.0 24.0 69.0	10.5 10.9 31.4	.198	5.03	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40,8 36.0 28.2 19.0 10,3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
†3000 ft. put-up available in Natural or Blue only. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Plenum • FEP Teflon Insulation • Fluorescent Pink Flamarrest Jacket																			
DataBrite®  Rip Cord	**1585B**	NEC: CMP CEC: CMP FT6	4	1000	304.8	24.0	10.9	.197	5.00	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40,8 36.0 28.2 19.0 10,3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Plenum • FEP Teflon Insulation • FEP Jacket (Available in Blue or White)																			
	**1585LC**	NEC: Limited Combustible FHC 25/50 CMP CEC: CMP FT6	4	U-1000 1000	U-304.8 304.8	23.0 23.0	10.5 10.5	.195	4.95	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40,8 36.0 28.2 19.0 10,3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
Jacket sequentially marked at 2 ft. intervals. No rip cord. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Patch Cable • 24 AWG Stranded (7x32) Bare Copper Conductors • Twisted Pairs • RJ-45 Compatible* • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Light Gray, White or Black)																			
Patch Cable 	**1592A**	NEC: CM CEC: CM FT1	4	U-1000 1000	U-304.8 304.8	22.0 23.0	10.0 10.5	.213	5.41	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.5 4.9 7.8 9.9 14.1 20.4 26.4 38.9	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	— — — — — — — —	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
*RJ-45 compatible for either T568-A or T568-B configurations. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e Patch																			

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: DataTwist 5e

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

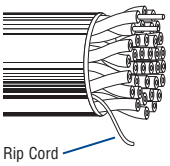
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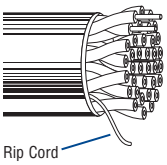
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IBDN Plus 25-Pair Cat5E UTP Cable

TIA/EIA-568-B.2, Category 5E
Enhanced Category 5 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm									
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																		
Non-Plenum • Polyolefin Insulation • Gray PVC Jacket																		
Gray, Reel	**24576125**	NEC: CMR CEC: CMR	25	1000	304.8	119	54.0	.490	12.45	9.38	—	330	0.772 1.0 4.0 8.0 10.0 16.0 20.0 25.0 31.25 62.5 100.0	1.8 2.0 4.1 15.8 16.5 8.2 9.3 10.4 11.7 17.0 22.0	64,0 62.3 53.3 48.8 47.3 44.2 42.8 41.3 39.9 35.4 32.3	63.0 63.8 48.8 42.7 40.8 36.7 34.8 32.8 30.9 24.9 20.8	102±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15	19.4 20.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6 21.5 20.1
Jacket sequentially market at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																		
Plenum • FEP Insulation • Gray Low-smoke PVC Jacket																		
Gray, Reel	**24577125**	NEC: CMP CEC: CMP	25	1000	304.8	127	57.6	.430	10.90	9.38	—	330	0.772 1.0 4.0 8.0 10.0 16.0 20.0 25.0 31.25 62.5 100.0	1.8 2.0 4.1 15.8 16.5 8.2 9.3 10.4 11.7 17.0 22.0	64,0 62.3 53.3 48.8 47.3 44.2 42.8 41.3 39.9 35.4 32.3	63.0 63.8 48.8 42.7 40.8 36.7 34.8 32.8 30.9 24.9 20.8	102±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15	19.4 20.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6 21.5 20.1
Jacket sequentially market at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																		





ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes:
IBDN Plus 25-Pair Cat5

Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate
16	Yellow	Blue
17	Yellow	Orange
18	Yellow	Green
19	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate

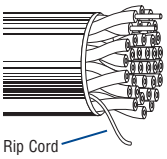
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

IBDN Plus 25-Pair Cat5 UTP Cable

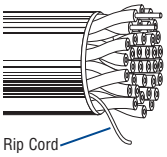
TIA/EIA-568-A, Category 5
Category 5 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																	
Non-Plenum • Polyolefin Insulation • Blue PVC Jacket																	
Blue, Reel	**24572238**	NEC:	25	1000	304.8	118.0	53.5	4.90	124.5	9.38	5.0	330	0.772	1.8	64.0	102±15	—
Blue, Reel	**24572250**	CMR	25	492	150.0								1.0	2.1	62.0	100±15	23
Blue,, Reel	**24572260**	CEC:	25	500	152.4								4.0	4.3	53.0	100±15	23
		CMR											8.0	5.9	48.0	100±15	23
													10.0	6.6	47.0	100±15	23
													16.0	8.2	44.0	100±15	23
													20.0	9.2	42.0	100±15	23
													25.0	10.5	41.0	100±15	22
													31.25	11.8	40.0	100±15	21
													62.5	17.1	35.0	100±15	18
													100.0	22.0	32.0	100±15	16



Jacket sequentially market at 2 ft. intervals.
Third party verified to TIA/EIA-568-A, Category 5

Plenum • 100% FEP Insulation • Gray Low-Smoke PVC Jacket																	
Gray, Reel	**24572351**	NEC:	25	328	100.0	118.0	53.5	4.90	124.5	9.38	5.0	330	0.772	1.8	64.0	102±15	—
Gray, Reel	**24572352**	CMP	25	984	300.0								1.0	2.1	62.0	100±15	23
Gray, Reel	**24572353**	CEC:	25	1000	304.8								4.0	4.3	53.0	100±15	23
		CMP											8.0	5.9	48.0	100±15	23
													10.0	6.6	47.0	100±15	23
													16.0	8.2	44.0	100±15	23
													20.0	9.2	42.0	100±15	23
													25.0	10.5	41.0	100±15	22
													31.25	11.8	40.0	100±15	21
													62.5	17.1	35.0	100±15	18
													100.0	22.0	32.0	100±15	16



Jacket sequentially market at 2 ft. intervals.
Third party verified to TIA/EIA-568-A, Category 5

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes:
IBDN Plus 25-Pair Cat5

Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate
16	Yellow	Blue
17	Yellow	Orange
18	Yellow	Green
19	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate

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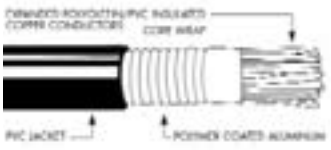
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Data Grade Armored Riser 25-Pair UTP Cable

TIA/EIA-568-A, Category 5

Category 5 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																	
Non-Plenum • Flame Retardant Polymer Insulation • ALVYAN Sheath • PVC Jacket																	
Gray, Reel	**25500027**	NEC:	25	8200	2500	205.0	93.0	0.62	15.70	9.38	—	328	0.772	1.8	64.0	102±15	—
Gray, Reel	**25500028**	CMR	25	Cut Length									1.0	2.1	62.3	100±15	23
		CEC:											4.0	4.3	53.3	100±15	23
		CMR											8.0	5.9	48.8	100±15	23
													10.0	6.6	47.3	100±15	23
													16.0	8.2	44.3	100±15	23
													20.0	9.2	42.8	100±15	23
													25.0	10.5	41.3	100±15	22
													31.25	11.8	40.9	100±15	21
													62.5	17.1	35.4	100±15	18
													100.0	22.0	32.3	100±15	16



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-A, Category 5

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: Data Grade Riser

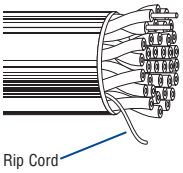
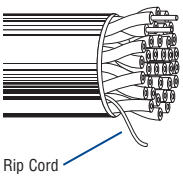
Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate
16	Yellow	Blue
17	Yellow	Orange
18	Yellow	Green
19	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist® 5 UTP Cable

TIA/EIA-568-A, Category 5 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Fitted Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																	
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Light Gray or Blue)																	
 Rip Cord	**1864A**	NEC: CMR CEC: CMR FT4	25	1000	304.8	144.0	65.4	.526	13.36	9.38	5.0	330	1 10 16 31.25 62.5 100	2.0 6.5 8.2 11.7 17.0 22.0	62.3 47.3 44.3 39.9 35.4 32.3	100±15 100±15 100±15 100±15 100±15 100±15	23.0 23.0 23.0 21.1 18.0 16.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-A, Category 5																	
Plenum • FEP Teflon® Insulation • FEP Jacket (Available in Blue Tint or White Tint)																	
 Rip Cord	**1871A**	NEC: CMP CEC: CMP	25	1000	304.8	131.0	59.5	.430	10.92	9.38	5.0	330	1 10 16 31.25 62.5 100	2.0 6.5 8.2 11.7 17.0 22.0	62.3 47.3 44.3 39.9 35.4 32.3	100±15 100±15 100±15 100±15 100±15 100±15	23.0 23.0 23.0 21.1 18.0 16.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-A, Category 5																	

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • SRL = Structural Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: 1864A

Pair	Color Combination
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Gray
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Gray
11	Black & Blue
12	Black & Orange
13	Black & Green

Pair	Color Combination
14	Black & Brown
15	Black & Gray
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Gray
21	Purple & Blue
22	Purple & Orange
23	Purple & Green
24	Purple & Brown
25	Purple & Gray

Color Codes: 1871A

Pair	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown
5	White/Gray Stripe & Gray
6	Red/Blue Stripe & Blue
7	Red/Orange Stripe & Orange
8	Red/Green Stripe & Green
9	Red/Brown Stripe & Brown
10	Red/Gray Stripe & Gray
11	Black/Blue Stripe & Blue
12	Black/Orange Stripe & Orange
13	Black/Green Stripe & Green

Pair	Color Combination
14	Black/Brown Stripe & Brown
15	Black/Gray Stripe & Gray
16	Yellow/Blue Stripe & Blue
17	Yellow/Orange Stripe & Orange
18	Yellow/Green Stripe & Green
19	Yellow/Brown Stripe & Brown
20	Yellow/Gray Stripe & Gray
21	Purple/Blue Stripe & Blue
22	Purple/Orange Stripe & Orange
23	Purple/Green Stripe & Green
24	Purple/Brown Stripe & Brown
25	Purple/Gray Stripe & Gray

Teflon is a DuPont trademark.

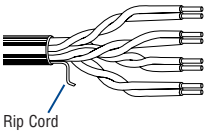
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IBDN Plus UTP Cable

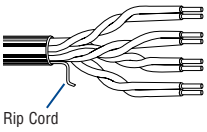
TIA/EIA-568-A, Category 5
Category 5 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Input Imped. (Ω)	Min. SRL (dB)
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																		
Non-Plenum • Polyolefin Insulation • PVC Jacket																		
White, Box	**24570086**	NEC:	4	1000	304.8	10.9	24.0	.186	4.72	9.38	5.0	330	0.772	1.8	64.0	62.2	—	—
Blue, Box	**24570036**	CMR											1.0	2.0	62.3	60.3	100±15	23.0
		CEC:											4.0	4.1	53.3	49.2	100±15	23.0
		CMR											8.0	5.8	48.8	43.0	100±15	23.0
													10.0	6.5	47.3	40.8	100±15	23.0
													16.0	8.2	44.3	36.0	100±15	23.0
													20.0	9.3	42.8	33.5	100±15	23.0
													25.0	10.4	41.3	30.9	100±15	22.0
													31.25	11.7	39.9	28.2	100±15	21.1
													62.5	17.0	35.4	18.4	100±15	18.1
													100.0	22.0	32.3	10.3	100±15	16.0
													155.0◗	28.1	29.5	1.4	100±15	14.1



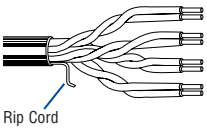
Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-A, Category 5

Non-Plenum • Polyolefin Insulation • LSZH Polymer Alloy																		
Purple, Box	**24570152**	NEC:	4	1000	304.8	11.3	25.0	.198	5.03	9.38	5.0	330	0.772	1.8	64.0	62.2	—	—
		CMR											1.0	2.0	62.3	60.3	100±15	23.0
		CEC:											4.0	4.1	53.3	49.2	100±15	23.0
		CMR											8.0	5.8	48.8	43.0	100±15	23.0
													10.0	6.5	47.3	40.8	100±15	23.0
													16.0	8.2	44.3	36.0	100±15	23.0
													20.0	9.3	42.8	33.5	100±15	23.0
													25.0	10.4	41.3	30.9	100±15	22.0
													31.25	11.7	39.9	28.2	100±15	21.1
													62.5	17.0	35.4	18.4	100±15	18.1
													100.0	22.0	32.3	10.3	100±15	16.0
													155.0◗	28.1	29.5	1.4	100±15	14.1



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-A, Category 5

Plenum • Dual Insulation: Polyolefin/FEP • Low-Smoke PVC Jacket																		
White, Box	**24570700**	NEC:	4	1000	304.8	9.98	22.0	.188	4.78	9.38	5.0	330	0.772	1.8	64.0	62.2	—	—
Blue, Box	**24570750**	CMP											1.0	2.0	62.3	60.3	100±15	23.0
		CEC:											4.0	4.1	53.3	49.2	100±15	23.0
		CMP											8.0	5.8	48.8	43.0	100±15	23.0
													10.0	6.5	47.3	40.8	100±15	23.0
													16.0	8.2	44.3	36.0	100±15	23.0
													20.0	9.3	42.8	33.5	100±15	23.0
													25.0	10.4	41.3	30.9	100±15	22.0
													31.25	11.7	39.9	28.2	100±15	21.1
													62.5	17.0	35.4	18.4	100±15	18.1
													100.0	22.0	32.3	10.3	100±15	16.0
													155.0◗	28.1	29.5	1.4	100±15	14.1



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-A, Category 5

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

◗Values provided for information only.

Color Codes: IBDN Plus

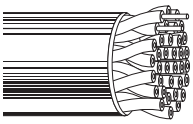
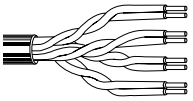
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist® 3 UTP Cable

TIA/EIA-568-A, Category 3 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR (Cond.)	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Min. NEXT (dB)	Maximum Attenuation	
				Ft.	m	Lbs.	kg	Inch	mm			* pF/Ft.	* pF/m			(dB/ 1000′)	(dB/ 100m)
24 AWG Solid Bare Copper Conductors • Twisted Pairs • See Color Code Chart (below)																	
Non-Plenum • Polyolefin Insulation • Gray PVC Jacket																	
	**1227A1**	NEC: CMR CEC: CMR	2	U-1000	U-304.8	13.0	6.0	.173	4.39	28.0Ω/M′ 91.8Ω/km	100	19.0	62.3	1 4 10 16	41.0 32.0 26.0 23.0	7.8 17.0 30.0 40.0	2.56 5.58 9.71 13.10
	1229A1	NEC: CMR CEC: CMR	4	U-1000	U-304.8	22.0	10.0	.197	5.00								
	1232A1	NEC: CMR CEC: CMR	25†	1000	304.8	104.0	47.2	.399	10.14								
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-A, Category 3																	
Plenum • Low-Smoke PVC Insulation • White Low-Smoke PVC Jacket																	
	**1243A2**	NEC: CMP CEC: CMP	2	U-1000	U-304.8	14.0	6.4	.170	4.32	28.0Ω/M′ 91.8Ω/km	100	19.0	62.3	1 4 10 16	41.0 32.0 26.0 23.0	7.8 17.0 30.0 40.0	2.56 5.58 9.71 13.10
	1245A2	NEC: CMP CEC: CMP	4	U-1000	U-304.8	23.0	10.4	.200	5.08								
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-A, Category 3																	

DCR = DC Resistance • NEXT = Near-end Crosstalk • UTP = Unshielded Twisted Pair(s)

*Capacitance between conductors

† 25-pair NEXT is Power Sum tested.

Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

Color Codes: DataTwist 3

Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Gray Stripe & Gray/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Gray Stripe & Gray/Red Stripe
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe

Pair No.	Color Combination
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Gray Stripe & Gray/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Gray Stripe & Gray/Yellow Stripe
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
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24	Purple/Brown Stripe & Brown/Purple Stripe
25	Purple/Gray Stripe & Gray/Purple Stripe

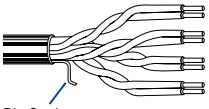
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

D-Inside and D-Flex Plenum UTP Cable

TIA/EIA-568-A and CSA T529-95, Category 3
Category 3 Nonbonded-pair Cables

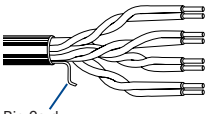
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																	
Non-Plenum • Polyvinyl Chloride Insulation • Olive Gray Low-Smoke PVC Jacket																	
Olive Gray, Box	**24501922**	NEC:	2	2500	762.0	11.0	4.99	0.13	3.30	9.38	5.0	262	0.772	2.2	43.0	—	—
Olive Gray, Box	**24501934**	CMR	3	1500	457.2	15.0	6.80	0.15	3.90				1.0	2.6	41.0	100±15	12.0
Olive Gray, Box	**24501941**	CEC:	4	1000	304.8	18.0	8.16	0.17	4.30				4.0	5.6	32.0	100±15	12.0
Olive Gray, Box	**24501950**	CMR	4	1500	457.2	18.0	8.16	0.17	4.30				8.0	8.5	28.0	100±15	12.0
Olive Gray, Reel	**24501947**		4	1000	304.8	18.0	8.16	0.17	4.30				10.0	9.7	26.0	100±15	12.0
													16.0	13.1	23.0	100±15	10.0



Rip Cord

Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-A, Category 3

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								
Plenum • Low Smoke Polyvinyl Chloride Insulation • Olive Gray Low-Smoke Jacket																	
Olive Gray, Box	**24571097**	NEC:	3	1500	457.2	16.0	7.26	0.16	4.06	9.38	5.0	262	0.772	2.2	43.0	—	—
Olive Gray, Box	**24571111**	CMP	4	1000	304.8	19.0	8.62	0.19	4.70				1.0	2.6	41.0	100±15	12.0
Olive Gray, Box	**24571112**	CEC:	4	1500	457.2	19.0	8.62	0.19	4.70				4.0	5.6	32.0	100±15	12.0
Olive Gray, Reel	**24571110**	CMP	4	1000	304.8	19.0	8.62	0.19	4.70				8.0	8.5	28.0	100±15	12.0
													10.0	9.7	26.0	100±15	12.0
													16.0	13.1	23.0	100±15	10.0



Rip Cord

Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-A, Category 3

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: D-Inside and D-Flex

Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe

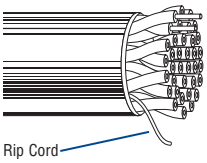
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D-Series Multipair UTP Cable

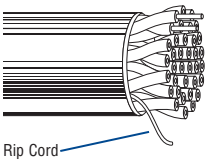
TIA/EIA-568-A and CSA T529-95, Category 3
Category 3 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																	
Non-Plenum • Semi-Rigid Polyvinyl Chloride Insulation • Olive Gray PVC Jacket																	
Olive Gray, Reel	**24501829**	NEC:	6	1000	304.8	28.0	12.7	0.21	5.3	—	8.8	262	0.772	2.2	43.0	100±15	12.0
Olive Gray, Reel	**24501837**	CMR	12	1000	304.8	50.0	22.7	0.28	7.1				1.0	2.6	41.0	100±15	12.0
Olive Gray, Reel	**24501848**	CEC:	16	984	300.0	64.0	29.0	0.32	8.0				4.0	5.6	32.0	100±15	12.0
Olive Gray, Reel	**24501858**	CMR	25	1000	304.8	100.0	45.4	0.39	10.0				8.0	8.5	28.0	100±15	12.0
Olive Gray, Reel	**24501877**		50	1000	304.8	194.0	87.0	0.53	13.4				10.0	9.7	26.0	100±15	12.0
Olive Gray, Reel	**24501887**		75	2083	635.0	279.0	126.6	0.63	16.0				16.0	13.1	23.0	100±15	10.0
Olive Gray, Reel	**24501897**		100	1575	480.0	365.0	165.6	0.72	18.2								
Olive Gray, Reel	**24501906**		200	900	274.3	703.0	318.9	0.99	25.1								



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-A, Category 3

Plenum • Low Smoke Polyvinyl Chloride Insulation • Low-Smoke PVC Jacket (Gray or Translucent)																	
Translucent, Reel	**24571221**	NEC:	25	1500	457.2	107.0	48.5	0.42	10.7	—	8.8	262	0.772	2.2	43.0	100±15	12.0
Gray, Reel	**24571235**	CMP	50	1000	304.8	211.0	95.7	0.49	12.4				1.0	2.6	41.0	100±15	12.0
Gray, Reel	**24571250**	CEC:	100	1500	457.2	415.0	188.2	0.72	18.3				4.0	5.6	32.0	100±15	12.0
Gray, Reel	**24571265**	CMP	200	1000	304.8	874.0	396.4	1.04	26.3				8.0	8.5	28.0	100±15	12.0
Gray, Reel	**24571266**		300	1000	304.8	1234.0	559.7	1.27	32.3				10.0	9.7	26.0	100±15	12.0
													16.0	13.1	23.0	100±15	10.0



Jacket sequentially market at 2 ft. intervals.
Featuring Descending Length Marking.
Third party verified to TIA/EIA-568-A, Category 3

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: D-Series Multipair

Pair No.	Tip	Ring
1	White/Blue	Blue/White
2	White/Orange	Orange/White
3	White/Green	Green/White
4	White/Brown	Brown/White
5	White/Slate	Slate/White
6	Red/Blue	Blue/Red
7	Red/Orange	Orange/Red
8	Red/Green	Green/Red
9	Red/Brown	Brown/Red
10	Red/Slate	Slate/Red
11	Black/Blue	Blue/Black
12	Black/Orange	Orange/Black
13	Black/Green	Green/Black

Pair No.	Tip	Ring
14	Black/Brown	Brown/Black
15	Black/Slate	Slate/Black
16	Yellow/Blue	Blue/Yellow
17	Yellow/Orange	Orange/Yellow
18	Yellow/Green	Green/Yellow
19	Yellow/Brown	Brown/Yellow
20	Yellow/Slate	Slate/Yellow
21	Violet/Blue	Blue/Violet
22	Violet/Orange	Orange/Violet
23	Violet/Green	Green/Violet
24	Violet/Brown	Brown/Violet
25	Violet/Slate	Slate/Violet

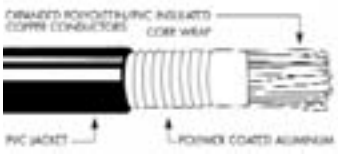
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Riser Multipair Armored UTP Cable

TIA/EIA-568-A and CSA T529-95, Category 3
Category 3 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																	
Non-Plenum • Dual Insulation: Polyolefin/PVC • ALVYAN Sheath • Gray PVC Jacket																	
Gray, Reel	**22713010**	NEC:	25	Variable Length		132.0	59.9	0.47	11.9	—	8.8	262	0.772	2.2	43.0	102±15	12.0
Gray, Reel	**22713020**	CMR	50	Variable Length		239.0	108.4	0.66	16.7				1.0	2.6	41.0	102±15	12.0
Gray, Reel	**22713030**	CEC:	100	Variable Length		421.0	191.0	0.85	21.5				4.0	5.6	32.0	102±15	12.0
Gray, Reel	**22713035**	CMR	105	Variable Length		610.0	276.7	0.99	25.3				8.0	8.5	28.0	102±15	12.0
Gray, Reel	**22713040**		200	Variable Length		766.0	347.5	1.10	28.0				10.0	9.7	26.0	102±15	12.0
Gray, Reel	**22713045**		250	Variable Length		940.0	426.4	1.22	31.0				16.0	13.1	23.0	102±15	10.0
Gray, Reel	**22713050**		300	Variable Length		1111.0	503.9	1.32	33.5								
Gray, Reel	**22713060**		400	Variable Length		1453.0	659.1	1.50	38.0								
Gray, Reel	**22713070**		600	Variable Length		2146.0	973.4	1.84	46.8								
Gray, Reel	**22713080**		900	Variable Length		3204.0	1453.3	2.25	57.1								
Gray, Reel	**22713090**		1200	Variable Length		4216.0	1912.3	2.56	65.1								



Jacket sequentially market at 2 ft. intervals.
Third party verified to TIA/EIA-568-A, Category 3

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: Riser Multipair

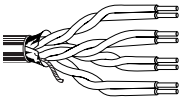
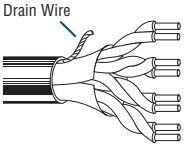
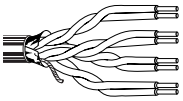
Pair No.	Tip	Ring	Binder group
1	White	Blue	White/Blue
2	White	Orange	White/Orange
3	White	Green	White/Green
4	White	Brown	White/Brown
5	White	Slate	White/Slate
6	Red	Blue	Red/Blue
7	Red	Orange	Red/Orange
8	Red	Green	Red/Green
9	Red	Brown	Red/Brown
10	Red	Slate	Red/Slate
11	Black	Blue	Black/Blue
12	Black	Orange	Black/Orange
13	Black	Green	Black/Green
14	Black	Brown	Black/Brown
15	Black	Slate	Black/Slate
16	Yellow	Blue	Yellow/Blue
17	Yellow	Orange	Yellow/Orange
18	Yellow	Green	Yellow/Green
19	Yellow	Brown	Yellow/Brown
20	Yellow	Slate	Yellow/Slate
21	Violet	Blue	Violet/Blue
22	Violet	Orange	Violet/Orange
23	Violet	Green	Violet/Green
24	Violet	Brown	Violet/Brown
25	Violet	Slate	Violet/Slate

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DataTwist® 5e ScTP Cable

TIA/EIA-568-B.2, Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire* • RJ-45 Compatible • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray or Black)																			
	**1533R**	NEC: CMR CEC: CMR	4	1000 A-1000 1640†	304.8 A-304.8 500.0	34.0 37.0 57.4	15.5 16.8 26.1	.260	6.60	9.38	3.0	330	1 4 8 10 16 20 25 31.25 62.5 100	2.0 4.1 5.8 6.5 8.2 9.3 10.4 11.7 17.0 22.0	62.3 53.3 48.8 47.3 44.3 42.8 41.3 39.9 35.4 32.3	60 49 43 41 36 34 31 28 18 10	60.8 48.7 42.7 40.8 36.7 34.7 32.8 30.9 24.8 20.8	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15	20.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6 21.5 20.1
†1640 ft. put-up available in Gray only. Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e																			
Non-Plenum • Polypropylene Insulation (Color Code: See Chart Below) **• Black Low-Smoke, Zero-Halogen Jacket**																			
300V RMS Drain Wire 	**1300SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	4	1000	304.8	35.0	15.9	.260	6.60	9.3	3.0	330	1 4 8 10 16 20 25 31.25 62.5 100	2.0 4.1 5.8 6.5 8.2 9.3 10.4 11.7 17.0 22.0	62.3 53.3 48.8 47.3 44.3 42.8 41.3 39.9 35.4 32.3	60 49 43 41 36 34 31 28 18 10	60.8 48.7 42.7 40.8 36.7 34.7 32.8 30.9 24.8 20.8	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15	20.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6 21.5 20.1
LSZH and ABS Type Approved Jacket sequentially marked at 2 ft. intervals.																			
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray, Black or Natural)																			
	**1533P**	NEC: CMP A-1000 CEC: CMP	4	1000	304.8 A-304.8	35.0 38.0	15.9 17.2	.235	6.00	9.38	3.0	330	1 4 8 10 16 20 25 31.25 62.5 100	2.0 4.1 5.8 6.5 8.2 9.3 10.4 11.7 17.0 22.0	62.3 53.3 48.8 47.3 44.3 42.8 41.3 39.9 35.4 32.3	60 49 43 41 36 34 31 28 18 10	60.8 48.7 42.7 40.8 36.7 34.7 32.8 30.9 24.8 20.8	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15	20.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6 21.5 20.1
Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss
ScTP = Screened (Overall Foil) Twisted Pair(s)

*Drain wire is 24 AWG stranded tinned copper.

Color Codes: DataTwist 5e ScTP

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

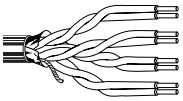
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DataTwist® 5 ScTP Cable

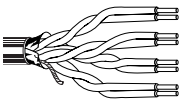
TIA/EIA-568-A, Category 5 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire* • RJ-45 Compatible • See Color Code Chart (below)																	
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple or Light Gray)																	
	1624R	NEC:	4	1000	304.8	33.0	15.0	.260	6.60	9.38	3.0	300	1	2.0	62.3	100±15	23.0
		CMR		A-1000	A-304.8	36.0	16.3						4	4.1	53.3	100±15	23.0
		CEC:		1640†	500.0	54.1	24.7						8	5.8	48.8	100±15	23.0
		CMR											10	6.5	47.3	100±15	23.0
													16	8.2	44.3	100±15	23.0
													20	9.3	42.8	100±15	23.0
													25	10.4	41.3	100±15	22.0
													31.25	11.7	39.9	100±15	21.1
													65.5	17.0	35.4	100±15	18.0
													100	22.0	32.3	100±15	16.0



†1640 ft. put-up available in Gray only.
Shield is bonded to jacket inner wall for electrical stability.
Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-A, Category 5

Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Gray or Natural)																	
	1624P	NEC:	4	1000	304.8	32.0	14.5	.230	5.84	9.38	3.0	300	1	2.0	62.3	100±15	23.0
		CMP		A-1000††	A-304.8	35.0	15.9						4	4.1	53.3	100±15	23.0
		CEC:											8	5.8	48.8	100±15	23.0
		CMP											10	6.5	47.3	100±15	23.0
													16	8.2	44.3	100±15	23.0
													20	9.3	42.8	100±15	23.0
													25	10.4	41.3	100±15	22.0
													31.25	11.7	39.9	100±15	21.1
													65.5	17.0	35.4	100±15	18.0
													100	22.0	32.3	100±15	16.0



††A-1000 ft. put-up available in Yellow, Blue, Gray or Natural only.
Shield is bonded to jacket inner wall for electrical stability.
Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-A, Category 5

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • ScTP = Screened (Overall Foil) Twisted Pair(s)

*Drain wire is 24 AWG stranded tinned copper on 1624R and 24 AWG solid tinned copper on 1624P.

Color Codes: DataTwist 5 ScTP

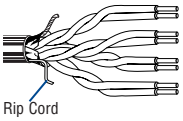
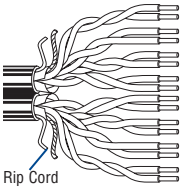
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist® 5 ScTP Cable

TIA/EIA-568-TSB 36, Category 5 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. NEXT (dB)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire • Rip Cord • See Color Code Chart (below)																	
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Gray or Blue)																	
 Rip Cord	**1633A**	NEC:	4	U-1000	U-304.8	30.0	13.6	.260	6.60	9.38	5.0	330	4	4.1	53.0	100±15	N/A
		CM		1000	304.8	32.0	14.5						10	6.5	47.0	100±15	N/A
		CEC:											16	8.2	44.0	100±15	N/A
		CM											31.25	11.7	40.0	100±15	N/A
													62.5	17.0	35.0	100±15	N/A
													100	22.0	32.0	100±15	N/A
Not compatible with RJ-11/12/45 connectors. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-TSB 36, Category 5																	
Non-Plenum • Dual • Polyolefin Insulation • Gray PVC Jacket with Polarity Rib																	
 Rip Cord	**1668A**	NEC:	2x4	1000	304.8	70.0	31.8	.518	13.16	9.38	5.0	330	4	4.1	53.0	100±15	N/A
		CM		1640	500.0	109.9	49.9	x	x				10	6.5	47.0	100±15	N/A
		CEC:						.254	6.45				16	8.2	44.0	100±15	N/A
		CM											31.25	11.7	40.0	100±15	N/A
													62.5	17.0	35.0	100±15	N/A
													100	22.0	32.0	100±15	N/A
Not compatible with RJ-11/12/45 connectors. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-TSB 36, Category 5 (Leg 1 & 2). A polarity rib is applied to one leg.																	

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • ScTP = Screened (Overall Foil) Twisted Pair(s)

Color Codes: DataTwist 5 ScTP

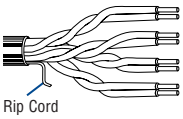
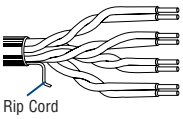
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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VideoTwist® 6 UTP Cable for RGB Video

TIA/EIA-568-B.2-1, Category 6 Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
23 AWG Bonded-Pairs Solid BC Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polypropylene Insulation • PVC Jacket																			
 Rip Cord	**7989R**	NEC: CMR CEC: CMG	4	1000 1640	304.8 500.0	32.0 52.5	14.5 23.8	.365 x .165	9.27 x 4.12	9.0	3.0	49.2	1 4 10 16 31.25 62.5 100 200 250	2.0 3.8 6.0 7.6 10.7 15.4 19.8 29.0 32.8	72.3 63.3 57.3 54.3 49.9 45.4 42.3 37.8 36.3	70.3 59.5 51.3 46.7 39.2 30.0 22.5 8.8 3.5	64.8 52.7 44.8 40.7 34.9 28.8 24.8 18.7 16.8	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±22 100±32	20.0 23.0 25.0 25.0 23.6 21.5 20.1 18.0 17.3
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 6																			
Plenum • FEP Insulation • Flamarrest® Jacket																			
 Rip Cord	**7989P**	NEC: CMP CEC: CMP	4	1000 1640	304.8 500.0	38.0 62.3	17.2 28.3	.365 x .165	9.27 x .4.12	9.0	3.0	49.2	1 4 10 16 31.25 62.5 100 200 250	2.0 3.8 6.0 7.6 10.7 15.4 19.8 29.0 32.8	72.3 63.3 57.3 54.3 49.9 45.4 42.3 37.8 36.3	70.3 59.5 51.3 46.7 39.2 30.0 22.5 8.8 3.5	64.8 52.7 44.8 40.7 34.9 28.8 24.8 18.7 16.8	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±22 100±32	20.0 23.0 25.0 25.0 23.6 21.5 20.1 18.0 17.3
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2-1, Category 6																			

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: VideoTwist 6 RGB

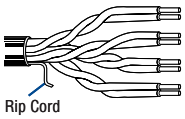
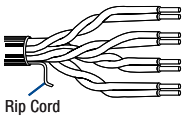
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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DataTwist® 5e UTP Cable for RGB Video

TIA/EIA-568-B.2, Category 5e Bonded and Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
Low Skew 24 AWG Bonded Pairs Solid BC Conductors • Twisted Pairs • Skew 9,0ns/100m nom. • Rip Cord • See Color Code Chart																			
Non-Plenum • Polyolefin Insulation • Green PVC Jacket																			
 Rip Cord	**7988R**	NEC:	4	U-1000	U-304.8	22.0	10.0	.204	5.18	9.0	3.0	66.0	1	2.0	65.3	60.3	60.8	100±15	20.0
		CMR		U-1640	U-500.0	36.1	16.4						4	4.1	53.3	49.2	48.7	100±15	23.0
		CEC:											10	6.5	47.3	40.8	40.8	100±15	25.0
		CMG											16	8.2	44.3	36.0	36.7	100±15	25.0
													31.25	11.7	39.9	28.2	30.9	100±15	23.6
													62.5	17.0	35.4	18.4	24.8	100±15	21.5
													100	22.0	32.3	10.3	20.8	100±15	20.1
													200	32.4	27.8	1.0	14.7	100±25	15.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			
Plenum • FEP Insulation • Green Flamarrest® Jacket																			
 Rip Cord	**7988P**	NEC:	4	U-1000	U-304.8	23.0	10.4	.193	4.90	9.0	3.0	66.0	1	2.0	65.3	60.3	60.8	100±15	20.0
		CMP		U-1640	U-500.0	37.7	17.1						4	4.1	53.3	49.2	48.7	100±15	23.0
		CEC:											10	6.5	47.3	40.8	40.8	100±15	25.0
		CMP											16	8.2	44.3	36.0	36.7	100±15	25.0
													31.25	11.7	39.9	28.2	30.9	100±15	23.6
													62.5	17.0	35.4	18.4	24.8	100±15	21.5
													100	22.0	32.3	10.3	20.8	100±15	20.1
													200	32.4	27.8	1.0	14.7	100±25	15.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																			

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: DataTwist 5e RGB

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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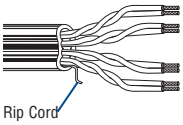
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

MediaTwist® and DataTwist® 6 UTP Patch Cables

TIA/EIA-568-B.2-1, Category 6
Enhanced Category 6 Bonded-Pair Cables

Patch Cables • 24 AWG Bonded-Pairs Stranded (7x32) Tinned Copper Conductor • RJ-45 Compatible • See Color Code Chart (below)▲

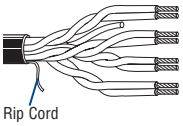
Non-Plenum • Polyolefin Insulation • PVC Jacket (Yellow, Green, Blue, Purple, Light Gray, Gray, White or Black)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
 Rip Cord	**1875GB**	NEC: CMR CEC: CMR	4	1000† A-1000††	304.8 A-304.8	31.0	14.1	.365 x .165	9.27 x 4.19	9.0	3.0	49.2	1	1.9	72.3	70	64.8	100±12	20.0
													4	3.7	63.3	59	52.8	100±12	23.0
													8	5.3	58.8	53	46.7	100±12	24.5
													10	5.9	57.3	51	44.8	100±12	25.0
													16	7.5	54.3	46	40.7	100±12	25.0
													25	9.5	51.4	42	36.8	100±15	24.3
													31.25	10.6	49.9	39	34.9	100±15	23.6
													62.5	15.4	45.4	30	28.9	100±15	21.5
													100	19.8	42.3	25	24.8	100±15	21.0
													155	25.1	39.5	14	20.9	100±15	21.0
													200	29.0	37.8	10	18.8	100±15	21.0
													250	32.8	36.3	3	16.8	100±20	18.0
													300	35.2	35.2	>0	15.2	100±20	18.0
													350	39.8	34.2	—	13.9	100±22	17.0
													400	43.0	—	—	—	100±32	14.0
													500	49.0	—	—	—	100±32	14.0

†1000 ft. put-up not available in Purple.
††A-1000 ft. put-up not available in Black.
U.S. Patents 5,606,151; 5,734,126; 5,763,823 and 5,821,467
Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch

Patch Cables • 24 AWG Solid BC Conductors • Twisted Pairs • Central Slit-Film Filler • RJ-45 Compatible* • See Color Code Chart (below)▲

Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
 Rip Cord	**7883A**	NEC: CM CEC: CM	4	1000	304.8	24.0	10.9	.205	5.21	9.38	5.0	330	1	2.4	72.3	69.9	64.8	100±15	20.0
													10	7.1	57.3	50.2	44.8	100±15	25.0
													20	10.2	52.8	42.6	38.8	100±15	25.0
													31.25	12.8	49.9	37.1	34.9	100±15	23.6
													62.5	18.5	45.4	26.9	28.9	100±15	21.5
													100	23.8	42.3	18.5	24.8	100±15	20.1
													200	34.8	37.8	3.0	18.8	100±22	18.0
													250	39.4	36.3	—	16.8	100±32	17.3

Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: MediaTwist Patch
(1875GB)

Pair No.	Color Combination
1	White/Brown Stripe & Brown
2	White/Blue Stripe & Blue
3	White/Green Stripe & Green
4	White/Orange Stripe & Orange

▲Color rotation available for T568-A or T568-B wiring schemes.

Color Codes: DataTwist 6 Patch
(7883A)

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

▲Color rotation available for T568-A or T568-B wiring schemes.

Handy Cable Preparation Tool for Bonded-Pairs

See page 15.40 for details.



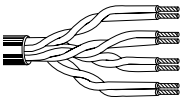
(Part No. 1797B)

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DataTwist® 350 UTP Patch Cable

TIA/EIA-568-B.2, Category 5e
Enhanced Category 5e Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
24 AWG Bonded-Pairs Stranded (7x32) Tinned Copper Conductors • RJ-45 Compatible • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Black or Gray)																			
	**1752A**	NEC:	4	U-1000	U-304.8	24.0	10.9	.220	5.59	9.0	3.0	66.0	1	2.4	65.3	62.9	60.8	100±12	20.0
		CM		1000	304.8	26.0	11.8						4	4.8	56.3	51.5	48.7	100±12	23.0
		CEC:											8	6.8	51.8	45.0	42.7	100±12	24.5
		CM											10	7.7	50.3	42.6	40.8	100±12	25.0
													16	9.7	47.3	37.5	36.7	100±12	25.0
													25	12.4	44.3	31.9	32.8	100±15	24.3
													31.25	13.9	42.9	29.0	30.9	100±15	23.6
													62.5	20.2	38.4	18.3	24.9	100±15	21.5
													100	26.0	35.3	9.2	20.8	100±15	20.1
													155	33.2	32.5	—	16.9	100±18	19.0
													200	38.4	30.8	—	14.7	100±20	19.0
													250	43.7	29.3	—	12.8	100±20	18.0
													350	53.2	27.2	—	9.9	100±22	17.0

Jacket sequentially marked at 2 ft. intervals.
U.S. Patents 5,606,151; 5,734,126 and 5,763,823
Third party verified to TIA/EIA-568-B.2, Category 5e Patch

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: DataTwist 350 Patch

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Get the Bonded-Pairs Cable Preparation Tool
See page 15.40 for details.
(Part No. 1797B)



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IEEE 802.3 • ISO/IEC 8802.3 10Base2 and 10Base5

Trunk Cables — Thinnet and Thicknet

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Thinnet 10Base2 • 20 AWG Stranded (19x32) .037″ Tinned Copper Conductors • Duobond® II + Tinned Copper Braid Shield (93% Coverage)																			
Non-Plenum • Ethernet • Foam HDPE Insulation • Gray PVC Jacket																			
UL AWM Style 1354 (30V 60°C)	**9907**	NEC: CL2, CM CEC: CM	500	152.4	12.5	5.7	20 AWG (19x32) .037″ Tinned Copper 8.8Ω/M′ 28.9Ω/km	.102	2.59	Duobond II + 93% Tinned Copper Braid 5.8Ω/M′ 19.0Ω/km	.185	4.70	50	80%	25.4	83.3	1	.43	1.4
			U-1000	U-304.8	25.0	11.4											10	1.30	4.3
			1000	304.8	25.0	11.4											50	2.90	9.5
			1640	500.0	41.0	18.6											100	4.20	13.8
			2500	762.0	62.5	28.4											200	6.10	20.0
			3280	1000.0	82.0	37.3											400	8.90	29.2
																	700	12.10	39.7
																	900	13.90	45.6
																	1000	14.80	48.6
DEC Part No. 17-01248-00											For Plenum versions of 9907, see 89907 or 82907.								
Plenum Ethernet • Foam FEP Insulation • Natural Flamarrest® Jacket																			
300V 75°C	**82907**	NEC: CL2P, CMP CEC: CMP	500†	152.4	12.5	5.7	20 AWG (19x32) .037″ Tinned Copper 8.8Ω/M′ 28.9Ω/km′	.095	2.41	Duobond II + 93% Tinned Copper Braid 5.8Ω/M′ 19.0Ω/km	.160	4.06	50	80%	25.4	83.3	1	.43	1.4
			U-1000	U-304.8	23.0	10.5											10	1.30	4.3
			1000†	304.8	24.0	10.9											50	2.90	9.5
			2500†	762.0	57.5	26.1											100	4.20	13.8
																	200	6.10	20.0
																	400	9.20	30.2
																	700	12.90	42.3
																	900	15.00	49.2
																	1000	16.00	52.5
Plenum Ethernet • Foam FEP Insulation • Gray Fluorocopolymer Jacket																			
300V 150°C	**89907†**	NEC: CL2P, CMP CEC: CMP	500†	152.4	12.5	5.7	20 AWG (19x32) .037″ Tinned Copper 8.8Ω/M′ 28.9Ω/km	.095	2.41	Duobond II + 93% Tinned Copper Braid 5.8Ω/M′ 19.0Ω/km	.160	4.06	50	80%	25.4	83.3	1	.43	1.4
			1000†	304.8	24.0	10.9											10	1.30	4.3
			2500†	762.0	60.0	27.3											50	2.90	9.5
																	100	4.20	13.8
																	200	6.10	20.0
																	400	9.20	30.2
																	700	12.90	42.3
																	900	15.00	49.2
																	1000	16.00	52.5
DEC Part No. 17-01246-00 Suitable for Outdoor and Direct Burial applications.																			
Thicknet 10Base5 • 12 AWG Solid .086″ Bare Copper Conductor • Duobond IV* Quad Shield (100% Coverage)																			
Non-Plenum • Ethernet • Foam Polyethylene Insulation • Yellow PVC Jacket																			
UL AWM Style 1478 (30V 60°C)	**9880**	NEC: CL2, CM CEC: CM	500	152.4	66.0	30.0	12 AWG (solid) .086″ Bare Copper 1.42Ω/M′ 4.66Ω/km	.243	6.17	Duobond IV (Duobond II + 94% TC Braid + Duofoil® + 90% TC Braid) 1.52Ω/M′ 5.0Ω/km	.405	10.29	50	78%	26.0	85.0	1	.19▲	.62
			1000	304.8	131.0	59.5											5	.37▲	1.21
			1640	500.0	219.8	99.9											10	.52▲	1.71
																	50	1.20▲	3.94
																	100	1.70▲	5.58
																	200	2.55▲	8.37
																	400	3.90▲	12.80
																	700	5.50▲	18.10
																	900	6.50▲	21.30
																	1000	6.90▲	22.60
DEC Part No. 17-00451-00 Ring-band stripes marked every 2.5 meters to aid users in tap placement.											For Plenum version of 9880, see 89880.								
Plenum Ethernet • Foam FEP Insulation • Orange Fluorocopolymer Jacket																			
150°C	**89880**	NEC: CL2P, CMP CEC: CMP	1000†	304.8	134.0	60.9	12 AWG (solid) .086″ Bare Copper 1.42Ω/M′ 4.66Ω/km	.245	6.22	Duobond IV (Duobond II + 94% TC Braid + Duofoil + 90% TC Braid) 1.52Ω/M′ 5.0Ω/km	.375	9.53	50	78%	26.0	85.0	1	.18	.59
			1640†	500.0	224.7	102.1											5	.37▲	1.21
																	10	.52▲	1.71
																	50	1.15	3.77
																	100	1.65	5.41
																	200	2.45	8.04
																	400	3.80	12.50
																	700	5.60	18.40
																	900	6.80	22.30
																	1000	7.20	23.60
DEC Part No. 17-00324-00 Suitable for Outdoor and Direct Burial applications. Ring-band stripes marked every 2.5 meters to aid users in tap placement.																			

DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond IV = Duobond II (100% coverage) + tinned copper braid (90% coverage) + Duofoil® (100% coverage) + tinned copper braid (90% coverage).
Plenum version is Duobond II (100% coverage) + tinned copper braid (94% coverage) + Duofoil (100% coverage) + tinned copper braid (90% coverage).
†Spools are one piece, but length may vary ±10% from length shown.
▲Maximum Attenuation

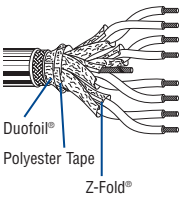
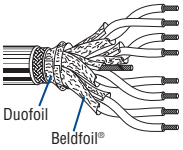
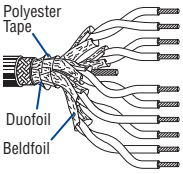
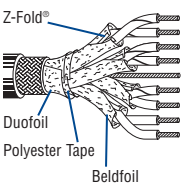
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IEEE 802.3 • ISO/IEC 8802.3 10Base5

Transceiver Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Conductor (stranding) Nom. DCR	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Drain Wire	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Nominal Capacitance ** pF/Ft.	Nominal Capacitance ** pF/m
28 and 24 AWG Stranded TC Conductors • Twisted Pairs • Overall Polyester Isolation Tape + Duofoil® + TC Braid Shield (92% Coverage) • Drain Wire																			
Non-Plenum • Polypropylene Insulation • Light Gray PVC Jacket																			
UL AWM Style 2919 (30V 80°C)	**9903**	NEC: CMG CEC: CMG	4	Gray/White, Yellow/Orange, Blue/Green, Black/Red	500 1000	152.4 304.8	21.5 43.0	9.8 19.5	3 Pair: 28 AWG (7x36) TC 65.0Ω/M′ 213.0Ω/km 1 Pair: 24 AWG (7x32) TC 24.0Ω/M′ 78.7Ω/km Each Pair Individually Beldfoil® Shielded	Polyester Isolation Tape + Duofoil + 92% Tinned Copper Braid 2.9Ω/M′ 9.5Ω/km	.250	6.35	24 AWG Stranded Tinned Copper	78•	66%	19.7	64.6	34.8	114.2
																			
•3 Pairs																			
20 AWG Stranded (7x28) TC Conductors • Twisted Pairs • Overall Polyester Isolation Tape + Duofoil + TC Braid Shield (95% Coverage) • Drain Wire																			
Non-Plenum • Datalene® Insulation • Light Gray PVC Jacket																			
UL AWM Style 2919 (30V 80°C)	**9901**	NEC: CL2, CM CEC: CM	4	Gray/White, Yellow/Orange, Blue/Green, Black/Red	500 1000	152.4 304.8	53.5 106.0	24.3 48.2	20 AWG (7x28) Tinned Copper Each Pair Individually Beldfoil Shielded 10.5Ω/M′ 34.4Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 2.0Ω/M′ 6.6Ω/km	.415	10.54	22 AWG Stranded Tinned Copper	78	78%	16.7	54.8	29.5	96.8
																			
For Plenum version of 9901, see 89901.																			
DEC Part No. 17-01320-00																			
UL AWM Style 2919 (30V 80°C)	**9902**	NEC: CL2, CM CEC: CM	5	Gray/White, Yellow/Orange, Blue/Green, Red/Brown, Red/Black	500 1000	152.4 304.8	76.0 145.0	34.5 65.9	20 AWG (7x28) Tinned Copper Each Pair Individually Beldfoil Shielded 10.5Ω/M′ 34.4Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 1.65Ω/M′ 5.4Ω/km	.495	12.58	20 AWG Stranded Tinned Copper	78	78%	16.7	54.8	29.5	96.8
																			
Plenum • FEP Teflon® Insulation†† • Light Gray Fluorocopolymer (PVDF) Jacket																			
150°C	**89901**	NEC: CMP CEC: CMP	4	Gray/White, Yellow/Orange, Blue/Green, Red/Black	500†† 1000††	152.4 304.8	51.5 104.0	23.4 47.3	20 AWG (7x28) Tinned Copper Each Pair Individually Beldfoil Shielded 10.5Ω/M′ 34.4Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 1.5Ω/M′ 4.9Ω/km	.370	9.40	22 AWG Stranded Tinned Copper	78	78%	16.7	54.8	29.5	96.8
																			

††Foam FEP (data pairs) and solid FEP (power pair).
DEC Part No. 17-01319-00 • Suitable for Outdoor and Direct Burial applications.

DCR = DC Resistance • TC = Tinned Copper

* Capacitance between conductors.
** Capacitance between one conductor and other conductors connected to shield.
†† Spools are one piece, but length may vary ±10% from length shown.

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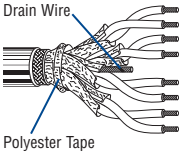
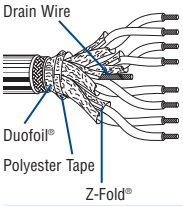
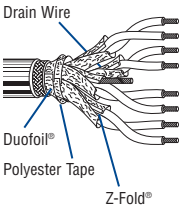
Teflon is a DuPont trademark.

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IEEE 802.3 • Ethernet 10Base5

Transceiver Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Wt.		Conductor (stranding) Nom. DCR	Shielding Materials Nom. DCR	Nominal OD		Drain Wire	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
					Ft.	m	Lbs.	kg			Inch	mm				* pF/Ft.	* pF/m	** pF/Ft.	** pF/m
20 AWG Stranded (7x28) .038″ TC Cond. • Twisted Pairs • Beldfoil® (100% Coverage) + Polyester Tape + TC Braid Shield (95% Cov,) • Drain Wire																			
Non-Plenum • Ethernet • Datalene® Insulation • Light Blue PVC Jacket																			
UL AWM Style 2919 (30V 80°C)	**9892**	NEC: CM, CL2 CEC: CM	4	Gray/White, Yellow/Orange, Blue/Green, Black/Red	500 1000	152.4 304.8	51.5 101.0	23.4 45.9	20 AWG (7x28) .038″ Tinned Copper 9.5Ω/M′ 31.2Ω/km	Polyester Isolation Tape + 95% Tinned Copper Braid 1.9Ω/M′ 6.2Ω/km	.398	10.1	22 AWG (7x30) Tinned Copper	78	78%	16.7	54.8	29.5	96.8
																			
20 AWG Stranded (7x28) .038″ TC Conductors • Twisted Pairs • Beldfoil® Inner + Overall Duofoil® (100% Coverage) + TC Braid Shield (95% Cov.)																			
Plenum • Ethernet • Foam FEP Insulation (Data) **• Solid FEP Insulation** (Power) **• Brown Fluorocopolymer Jacket**																			
	89892	NEC: CMP CEC: CMP	4	Gray/White, Yellow/Orange, Blue/Green, Red/Black	500 1000	152.4 304.8	50.0 101.0	22.7 45.9	20 AWG (7x28) .038″ Tinned Copper 9.5Ω/M′ 31.2Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 1.5Ω/M′ 4.9Ω/km	.359	9.1	22 AWG (7x30) Tinned Copper	78	78%	16.7	54.8	29.5	96.8
																			
20 and 22 AWG Stranded TC Conductors • Twisted Pairs • Beldfoil® Inner Shield (100% Coverage) + Overall TC Braid Shield (95% Coverage)																			
Non-Plenum • Ethernet • Foam HDPE (22 AWG) and PVC (20 AWG) Insulation • Light Blue PVC Jacket																			
UL AWM Style 2919 (30V 80°C)	**9891**	NEC: CM CEC: CM	4	Black/White, Yellow/Orange, Blue/Green, Gray/Purple	100 500 1000	30.4 152.4 304.8	7.4 36.0 70.0	3.7 16.3 16.3	3 Pair: 22 AWG (7x30) TC 14.7Ω/M′ 48.23Ω/km Foam HDPE Insulation 1 Pair: 20 AWG (7x28) TC 9.5Ω/M′ 31.1Ω/km PVC Insulation	Each Pair Individually Beldfoil® Shielded, Overall Duofoil + 95% Tinned Copper Braid 1.8Ω/M′ 5.9Ω/km	.316	8.0	22 AWG (7x30) Tinned Copper	78♦	78%♦	16.7♦	54.8♦	29.5♦	96.8♦
																			

♦3 Pairs

DCR = DC Resistance • HDPE = High=density Polyethylene • TC = Tinned Copper

* Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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IEEE 802.4 MAP & Mini-MAP • IEEE 802.7

Broadband Coaxial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel Conductor • Duobond® IV* Quad Shield (100% Coverage)																			
Non-Plenum • Gas-injected Foam Polyethylene Insulation • Gray PVC Jacket																			
	3131A	NEC: CL2R, CMR CEC: CMG	1000 **	304.8	41.0	18.6	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.8Ω/km	.180	4.57	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.300	7.62	75	82%	16.2	53.1	1	.35	1.2
			2500 †	762.2	102.5	46.5											2	.38	1.3
																	5	.45	1.5
																	10	.59	1.9
																	20	.86	2.8
																	50	1.37	4.5
																	100	1.97	6.5
																	200	2.82	9.3
																	300	3.48	11.4
																	400	4.04	13.3
Tap marks every 2.6 meters to aid users in installation.													Sweep tested 5 MHz to 400 MHz. CPE jacket optional.						
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																			
150°C	**3132A**	NEC: CMP CEC: CMP	1000 **	304.8	36.0	16.4	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.8Ω/km	.170	4.32	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.274	6.96	75	82%	16.3	53.5	1	.36	1.2
																	2	.38	1.3
																	5	.50	1.6
																	10	.65	2.1
																	20	.95	3.1
																	50	1.50	4.9
																	100	2.12	7.0
																	200	2.99	9.8
																	300	3.66	12.0
																	400	4.23	13.9
Tap marks every 2.6 meters to aid users in installation. Suitable for Outdoor and Direct Burial applications.													Sweep tested 5 MHz to 400 MHz.						

BCCS = Bare Copper Covered Steel • DCR = DC Resistance

*Duobond IV Quad Shield = Duobond + 60% aluminum braid + Duofoil® + 40% aluminum braid.
†Spools are one piece, but length may vary ±10% from length shown.

**1000′ exact 1 pc.

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IEEE 802.4 MAP & Mini-MAP • IEEE 802.7

Broadband Coaxial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel Conductor • Duobond IV* Quad Shield (100% Coverage)																			
Non-Plenum • Gas-injected Foam Polyethylene Insulation • Gray PVC Jacket																			
	3094A	NEC: CL2R, CMR CEC: CMG	500 **	152.4	31.0	14.1	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV Quad Shield 1.5Ω/M′ 4.9Ω/km	.407	10.34	75	82%	16.2	53.1	1	.16	.5
			1000 **	304.8	62.0	28.2											2	.18	.6
			2000 †	609.6	122.0	55.3											5	.26	.9
																	10	.38	1.2
																	20	.55	1.8
																	50	.83	2.7
																	100	1.17	3.8
																	200	1.60	5.3
																	300	1.99	6.6
																	400	2.30	7.6
Tap marks every 2.6 meters to aid users in installation.												Sweep tested 5 MHz to 400 MHz. CPE jacket optional.							
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																			
150°C	**3095A**	NEC: CMP CEC: CMP	1000 **	304.8	76.0	34.5	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV Quad Shield 3.9Ω/M′ 12.8Ω/km	.387	9.83	75	82%	16.5	54.1	1	.17	.6
																	2	.22	.7
																	5	.28	.9
																	10	.40	1.3
																	20	.60	2.0
																	50	1.20	3.9
																	100	1.70	5.6
																	200	2.50	8.2
																	300	3.04	10.0
																	400	3.50	11.5
Tap marks every 2.6 meters to aid users in installation. Suitable for Outdoor and Direct Burial applications.												Sweep tested 5 MHz to 400 MHz.							

BCCS = Bare Copper Covered Steel • DCR = DC Resistance

*Duobond IV Quad Shield = Duobond + 60% aluminum braid + Duofoil® + 40% aluminum braid.
†Spools are one piece, but length may vary ±10% from length shown.

**500' & 1000' exact 1 pc.

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IEEE 802.5; ISO/IEC 8802.5

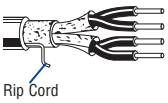
IBM Cabling System
Types 1A and 1

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Maximum Attenuation		Min. NEXT	
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m		(dB/ 1000′)	(dB/ 100m)	(dB/ 3280′)	(dB/ 1000m)

IBM Type 1A • 22 AWG Solid BC Conductors • Each Pair Individually Beldfoil® Shielded + Overall TC Braid Shield (65% Coverage) • Rip Cord

Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket

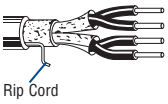
IBM Part No.	**9688**	NEC:	2	500†	152.4	26.5	12.0	.296	7.52	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716748		CMG		1000†	304.8	50.0	22.7	x	x	(solid)	Beldfoil				16	13.4	4.4	50.4	50.4
33G2772		CEC:		2000†	609.8	102.0	46.3	.431	10.95	BC	Each Pair				100	37.5	12.3	38.5	38.5
		CMG		3600†	1097.6	190.8	86.5			.026″	+ 65%				300	65.2	21.4	31.3	31.3
										16.7Ω/M′	TC Braid				100††	40.8	13.4	—	—
										54.7Ω/km	Overall				300††	71.0	23.3	—	—
															600††	100.3	32.9	—	—


Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.
IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Non-suffix "A" Type IBM Product, **see 1634A** below.

Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket

IBM Part No.	**82688**	NEC:	2	1000†	304.8	47.0	21.4	.248	6.30	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716749		CMP						x	x	(solid)	Beldfoil				16	13.4	4.4	50.4	50.4
33G8220		CEC:						.348	8.84	BC	Each Pair				100	37.5	12.3	38.5	38.5
		CMP								.026″	+ 65%				300	65.2	21.4	31.3	31.3
										16.7Ω/M′	TC Braid				100††	40.8	13.4	—	—
										54.7Ω/km	Overall				300††	71.0	23.3	—	—
															600††	100.3	32.9	—	—

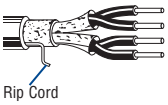

Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified.
IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.

IBM Type 1 • 22 AWG Solid BC Conductors • Each Pair Individually Beldfoil Shielded + Overall TC Braid Shield (65% Coverage) • Rip Cord

Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket

IBM Part No.	**1634A**	NEC:	2	1000†	304.8	50.0	22.7	.296	7.52	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716748		CMG		2000†	609.8	102.0	46.4	x	x	(solid)	Beldfoil				16	13.4	4.4	40.0	40.0
		CEC:		3600†	1097.6	190.8	86.7	.431	10.95	BC	Each Pair								
		CMG								.026″	+ 65%								
										17.4Ω/M′	TC Braid								
										57.1Ω/km	Overall								


Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.
IBM qualified Type 1 Media cable for use in IBM Cabling Systems. For Suffix A counterpart see 9688 above.

DCR = DC Resistance • BC = Bare Copper • NEXT = Near-end Crosstalk • TC = Tinned Copper

* Capacitance between conductors
† Spools are one piece, but length may vary ±10% from length shown.
†† Common mode

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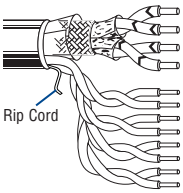
IEEE 802.5; ISO/IEC 8802.5

IBM Cabling System
Types 2A and 6A

IBM Type 2A • 22 AWG Solid Bare Copper Conductors • Each Pair Individually Beldfoil® Shielded + Overall TC Braid Shield (65% Coverage)

Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Freq. (MHz)	Maximum Attenuation (dB/ 1000′)	Maximum Attenuation (dB/ 100m)	Min. NEXT (dB/ 3280′)	Min. NEXT (dB/ 1000m)
IBM Part No.	**9689**	NEC:	6▲	1000†	304.8	80.0	36.4	.324	8.23	22	100%	150	8.5	27.9	1k**	.390	.128	—	—
4716739		CMG		3600†	1097.6	298.8	135.8	x	x	(solid)	Beldfoil	@ 1MHz	(data)	(data)	4	6.7	2.2	58.0	58.0
33G2773		CEC:						.466	11.84	BC	Each Pair	(data)			16	13.4	4.4	50.4	50.4
		CMG								.026″	+ 65%	600			100	37.5	12.3	38.5	38.5
										16.7Ω/M′	TC Braid	@ 1kHz			300	65.2	21.4	31.3	31.3
										54.7Ω/km	Overall	(voice)			100††	40.8	13.4	—	—
											(data only)				300††	71.0	23.3	—	—
															600††	100.3	32.9	—	—

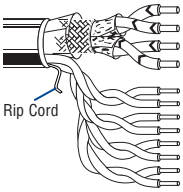


For Plenum version of 9689, see 82689.

IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Freq. (MHz)	Maximum Attenuation (dB/ 1000′)	Maximum Attenuation (dB/ 100m)	Min. NEXT (dB/ 3280′)	Min. NEXT (dB/ 1000m)
IBM Part No.	**82689**	NEC:	6▲	1000†	304.8	79.0	35.9	.324	8.23	22	100%	150	8.5	27.9	1k**	.390	.128	—	—
4716738		CMP						x	x	(solid)	Beldfoil	@ 1MHz	(data)	(data)	4	6.7	2.2	58.0	58.0
33G8221		CEC:						.460	11.68	BC	Each Pair	(data)			16	13.4	4.4	50.4	50.4
		CMP								.026″	+ 65%	600			100	37.5	12.3	38.5	38.5
										16.7Ω/M′	TC Braid	@ 1kHz			300	65.2	21.4	31.3	31.3
										54.7Ω/km	Overall	(voice)			100††	40.8	13.4	—	—
											(data only)				300††	71.0	23.3	—	—
															600††	100.3	32.9	—	—



IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

IBM Type 6A • 26 AWG Stranded (7x34) BC Conductors • Twisted Pairs • Beldfoil Shielded Pairs + Overall TC Braid Shield (65% Coverage)

Non-Plenum • Datalene® Insulation • Striated Black PVC Jacket

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Freq. (MHz)	Maximum Attenuation (dB/ 1000′)	Maximum Attenuation (dB/ 100m)	Min. NEXT (dB/ 3280′)	Min. NEXT (dB/ 1000m)
IBM Part No.	**1215A**	NEC:	2	1000†	304.8	46.0	20.9	.325	8.26	26	100%	150	8.5	27.9	4	10	3.3	52.0	52.0
4716743		CL2, CM								(7x34)	Beldfoil				16	20	6.6	44.0	44.0
33G2775		CEC:								BC	Each Pair				100	57	18.7	33.0	33.0
		CM								.019″	+ 65%				300	100	32.3	25.0	25.0
										38.7Ω/M′	TC Braid								
										127.0Ω/km	Overall								



IBM qualified Type 6A Office cable for use in IBM Cabling Systems.

BC = Bare Copper • DCR = DC Resistance • NEXT = Near-end Crosstalk • TC = Tinned Copper

* Capacitance between conductors
** Voice pairs (1 kHz); Data pairs (4–600 MHz)
† Spools are one piece, but length may vary ±10% from length shown.
†† Common mode
▲ (2) shielded Data-grade pairs; (4) unshielded Voice-grade media pairs

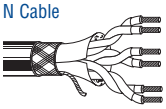
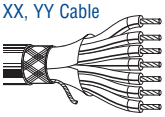
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IBM RISC System/6000

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs/ Cond.	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Material Nom. DCR	Shielding Material Nom. DCR	Nom. Imped. (Ω)	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m	** pF/Ft.	** pF/m
28 AWG Stranded (7x36) Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shielded + TC Braid Shield (65% Coverage) • TC Drain Wire																
Non-Plenum • Patented Step Polyolefin Insulation • Gray PVC Jacket (See RISC Color Code Chart below)																
IBM Part No. N Cable  RJ-45 compatible	**1538A**	NEC: CL2	3	U-1000 1000	U-304.8 304.8	24.0 25.0	10.9 11.4	.225	5.72	28 (7x36) Bare Copper 63.0Ω/M′ 207.0Ω/km	Overall Beldfoil + 65% TC Braid 5.5Ω/M′ 18.0Ω/km	120	12.0	39.4	21.5	70.5
IBM Part No. XX, YY Cable  RJ-45 compatible	**1540A**	NEC: CL2	7/c	U-1000 1000	U-304.8 304.8	21.0 21.0	9.5 9.5	.190	4.83	28 (7x36) Bare Copper 63.0Ω/M′ 207.0Ω/km	Overall Beldfoil + 65% TC Braid 7.2Ω/M′ 23.6Ω/km	—	12.5	41.0	23.0	75.5

DC = DC Resistance • TC = Tinned Copper

* Capacitance between conductors
**Capacitance between one conductor and other conductors connected to shield

Color Codes: IBM RISC System/6000

Cond.	Color
1st	White over Blue
2nd	White over Orange
3rd	White over Green
4th	White over Brown
5th	White over Gray
6th	White over Red
7th	White over Yellow

Pair No.	Color Combination
1	White over Blue & Blue over White
2	White over Orange & Orange over White
3	White over Green & Green over White

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SCSI 25- and 34-Pair Cable

(Small Computer System Interface)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD		AWG (stranding) Material Nom. DCR	Shielding Material Nom. DCR	Nom. Imped. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm					* pF/Ft.	* pF/m	** pF/Ft.	** pF/m
SCSI • 28 AWG Stranded (7x36) TC Conductors • Twisted Pairs • Overall Beldfoil® Shield + TC Braid Shield (85% Coverage) • See Color Code Chart (below)																	
Non-Plenum • Flame-retardant Polyolefin Insulation • Polypropylene Buffer Layer • Light Gray PVC Jacket																	
150V 	**1401A**	NEC: CL2, CMG CEC: CMG	25	500 1000	152.4 304.8	51.5 101.0	23.4 45.9	.420	10.7	28 (7x36) TC 64.9Ω/M′ 212.9Ω/km	Overall Beldfoil + 85% TC Braid 2.0Ω/M′ 6.6Ω/km	120† 80††	66%	12.7	41.7	30.0	98.4
150V 	**1403A**	NEC: CL2, CM CEC: CM	34	500 1000	152.4 304.8	71.5 139.0	32.5 63.2	.480	12.2	28 (7x36) TC 64.9Ω/M′ 212.2Ω/km	Overall Beldfoil + 85% TC Braid 1.5Ω/M′ 4.9Ω/km	120† 80††	66%	12.7	41.7	30.0	98.4

DCR = DC Resistance • TC = Tinned Copper

* Capacitance between conductors.
** Capacitance between one conductor and other conductors connected to shield.
† Differential mode impedance.
†† Single end mode termination impedance.

Color Codes: Modified Western Electric Standard

Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Gray Stripe & Gray/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe

Pair No.	Color Combination
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Gray Stripe & Gray/Red Stripe
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Gray Stripe & Gray/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe

Pair No.	Color Combination
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Gray Stripe & Gray/Yellow Stripe
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe

Pair No.	Color Combination
25	Purple/Gray Stripe & Gray/Purple Stripe
26	White & Blue
27	White & Orange
28	White & Green
29	White & Brown
30	White & Gray
31	Red & Blue
32	Red & Orange
33	Red & Green
34	Red & Brown

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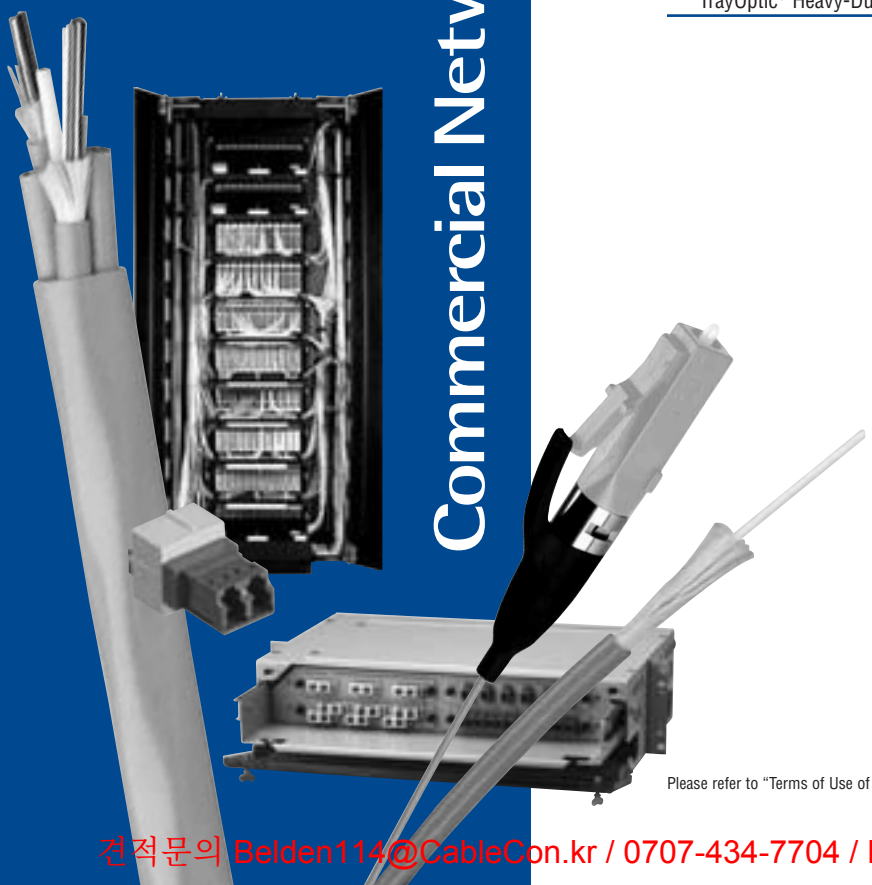
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16 Commercial Networking: Optical Fiber

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Please refer to “Terms of Use of Master Catalog” on page 22.22

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Introduction

Belden IBDN FiberExpress Systems

Optical fiber systems offer many benefits: high bandwidth and transmission speed, the potential for network growth, extended reach, fault tolerance, greater data security and support for Gigabit and multi-Gigabit protocols and networked applications. Beyond these traditional benefits, however, Belden offers the Fiber*Express* Solution, a complete end-to-end cabling system supporting both centralized and fiber-to-the-desk topologies, as well as backbone and campus cabling configurations. Our Fiber*Express* Solutions meet or exceed all applicable TIA/EIA, ISO/IEC and IEEE standards and offer:

- Reduced design complexities
- Greater deployment facility
- Quick installation
- Increased flexibility
- Cost effective pricing

Primary FiberExpress System Components

Key components of the Fiber*Express* Systems are summarized below and are found on the catalog pages that follow.

Optimax® Connectors



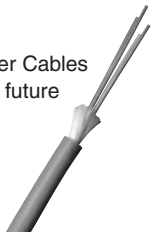
Optimax Connectors are a revolutionary field-installable optical fiber connector. The unique design of the patented mechanical splice body of Optimax incorporates a factory mounted fiber stub and a pre-polished ceramic ferrule. This technology consistently provides a fast, secure and reliable LC, SC or ST Compatible optical fiber termination for multimode or single-mode cable. All critical steps are performed in the factory, ensuring a superior quality connection every time.

The FiberExpress Manager



The Fiber*Express* Manager makes fiber management easier than ever before. Designed to streamline termination, connection and maintenance activities, the Fiber*Express* Manager uses a scalable, modular approach to adapt to a wide variety of situations. The total system provides extra high connection density while facilitating cable routing and patch cord management. The Fiber*Express* Manager is adaptable for almost all situations, traditional field termination or pre-terminated modules, which reduces design complexity and increases deployment efficiency.

Extended Reach Optical Fiber Cables



Extended Reach Optical Fiber Cables propel your network into the future of cable technology with our multimode Fiber*Express* FX300, FX600 or FX2000 series. These series were developed to meet the existing needs of networks at 1 Gb/s (Ethernet, 1000Base-SX and 1000Base-LX) and new networks at 10 Gb/s (Ethernet, 10GBase-S and 10GBase-LX4). These series offer better reach for laser-based systems. For 1 Gb/s Ethernet at 850 nm (VCSEL), the FX300 and FX600 series provide a range of 984 ft (300 m) and 1,968 ft (600 m), respectively. For 10 Gb/s Ethernet at 850 nm (VCSEL), the FX2000 series provide a range of 984 ft (300 m) for 10GBase-S where all of multimode series can offer a 984 ft (300 m) range at 1300 nm (laser) for 10GBase-LX4. All of this while assuring total compatibility with LED systems and FDDI fiber installation cables. Our single-mode cable offering enhances the options for longer distance support — up to 40 km — for any of the Gigabit Ethernet applications.

The FiberExpress Bar



The Fiber*Express* Bar is an extremely compact, modular and resilient linking panel. Resembling a power bar, it offers 6 or 12 fibers, pre-terminated with an SC, SC duplex, ST-compatible, LC, MT-RJ or FC connectors and a cord terminated with a multi-fiber MPO connector — all of which are factory verified. The Fiber*Express* Bar can adapt to all kinds of properties or developments, and can serve as a consolidation or linking point. It's available in both single-mode and multimode media.

For the ultimate in quick, easy and reliable optical networking we also offer the Fiber*Express* Pre-connectorized System. Based on the concept of building blocks, the complete range of pre-terminated Fiber*Express* components bring flexibility to the design stage. The in-factory fabrication and verification of pre-terminated connections ensures the high-performance and high-quality of the product. These products are "plug and go" and their deployment requires no specialized tools — you can deploy 12 fibers in the same amount of time it takes to connect a power cord to a standard electrical plug. This pre-terminated technology will help to preserve the initial investment by its ability to be re-deployed while always ensuring quality results.

Quality Installation and Service

All Belden IBDN systems are designed, installed and field-tested by fully-trained and certified system contractors and integrators to further assure superior systems performance. They are also backed by a strict System Certification and Warranty Program.

System Certification and Warranty Program

The Belden IBDN Certification Program is a rigorous process that ensures that your Belden IBDN 'Certified' System is composed of Belden IBDN components, designed and installed by a factory-trained Certified System Vendor. Belden IBDN 'Certified' Systems are supported by a series of warranties that surpass conventional product warranties. Certification adds important end-to-end system performance guarantees and ensures full compliance with cabling industry standard specifications — even after system installation (Installable Performance®). A 25-year Product Warranty and a Lifetime Application Assurance program accompany each Belden IBDN 'Certified' System installation. These warranty programs include coverage for both parts and labor.

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Fiber Channel Topology

Fiber*Express*® System Matrix	Page No.	Fiber-to-the-Desk (FTTD) and Centralized Fiber	Fiber Backbone (In-Building)	Fiber Backbone (Campus)	Fiber*Express* Pre-Terminated Solutions*
Fiber*Express* Cables					
Distribution & Breakout Cable Series Multimode and Single-mode	16.20–16.23	●			●
Interconnect Cable Series Multimode and Single-mode	16.19	●			
Loose Tube (Campus) Cable Series MM, SM, Composite MM/SM	16.27–16.34			●	●
Ribbon Cable Series Multimode and Single-mode	16.26	●	●	●	●
Cross-Connect Hardware in the Telecom Room					
Fiber*Express* Manager with Fiber*Express* Manager Connector Modules Multimode and Single-mode	16.11	●	●	●	●
Fiber*Express* Rack Mount Patch Panel with Universal Adapter Strips Multimode and Single-mode	16.12	●		●	●
Fiber*Express* Wall Mount Patch Panel with Universal Adapter Strips Multimode and Single-mode	16.13	●		●	●
Fiber*Express* Bar: Multimode and Single-mode	16.8	●	●	●	●
Patch Cords in the Telecom Room and at the Work Area					
Fiber*Express* Patch Cords: Multimode and Single-mode	16.6	●	●	●	●
Outlets at the Work Area					
MDVO® Multimedia Outlets with MDVO Multimedia Modules	16.16	●			
MediaFlex® Outlets with MediaFlex Multimedia Inserts	16.15	●			
Fiber*Express* Bar Multimode and Single-mode (as MUTOA)	16.8	●	●		
Fiber Connectivity					
Optimax® Connectors Multimode and Single-mode	16.4	●		●	●
Epoxy Field Mountable Connectors Multimode and Single-mode	16.5	●		●	●
Fiber Pigtails Multimode and Single-mode	16.8	●		●	●

MM = Multimode • SM = Single-mode

*Fiber*Express* Pre-terminated Solutions provide simple-to-install, high-performance fiber channels through custom length, high precision factory terminated cables and matching optical connectivity components.

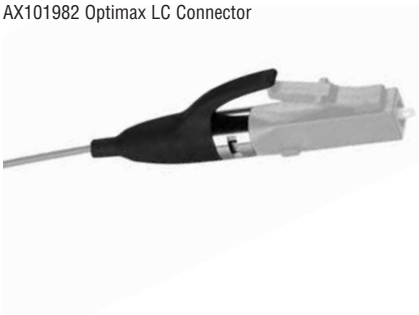
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Fiber*Express* Connectors

Optimax® Field Installable Connectors and Installation Tool Kits

AX101982 Optimax LC Connector



AX100029 with AX101794 Optimax SC Connector



A0408835 with AX101793 Optimax ST Compatible Connector



AX100947 Optimax Tool Kit



Optimax Field Installable Connector

The Optimax Connectors are reliable field installable optical fiber connectors that are easy to install. They do not require epoxy, curing or polishing. Their unique design incorporates a factory polished fiber stub in a splice mechanism which provides a fast, secure, and reliable termination on optical fiber cables. All critical steps are performed in the factory, ensuring a superior-quality connection every time. Only simple tools are required for installation, making Optimax a cost effective field termination.

Optimax Connectors are high-quality LC, SC and ST Compatible connectors that use a ceramic ferrule with a physical contact (PC) polish for Multimode and super physical contact (SPC) polish for Single-mode that ensures the best possible mating of optical fibers. Connectors are available for 62.5 or 50/125 µm Multimode fiber and Single-mode fiber installations.

Optimax Installation Tool Kit

The Optimax Installation Tool Kit is packaged in a small convenient carrying case and includes an Optimax LC, SC and ST Compatible installation and training video, installation instructions and all the tools required to terminate 900 µm buffered optical fiber and jacketed optical fiber.

The Optimax Installation Tool Kit has all the tools and supplies required to install both the Optimax LC, SC or ST Compatible Multimode and Single-mode connectors. Certain tool kit items can be purchased separately to accommodate installers already possessing basic optical fiber installation tools.

Description	Belden Part Number
Fiber*Express* Connectors	
Optimax Field Installable Connector	
LC 62.5 µm, Multimode*	**AX101981**
LC 50 µm, Multimode*	**AX101982**
LC Single-mode*	**AX101983**
SC 62.5 µm, Multimode*	**AX100029**
SC 50 µm, Multimode*	**AX101077**
SC Single-mode*	**AX101792**
ST Compatible 62.5 µm, Multimode*	**A0408835**
ST Compatible 50 µm, Multimode*	**AX101075**
ST Compatible Single-mode*	**AX101791**
LC Accessory Kit for jacketed fiber (2 mm boot and a crimp sleeve)	**AX101984**
SC Accessory Kit for jacketed fiber (3 mm boot, crimp sleeves, cord adapter)	**AX101794**
ST Accessory Kit for jacketed fiber (3 mm boot, crimp sleeves)	**AX101793**
Optimax Installation Tool Kit	
LC/SC/ST Compatible (includes installation tools, fiber cleaver, crimping tool, instruction manual, microscope, tweezers, alcohol wipes, marker, scissors, waste bottle, fiber stripper, cable stripper and Training Video)	**AX100947**
Basic (excludes fiber stripper & cleaver)	**AX100949**
Optimax LC Tool Kit Upgrade (includes LC installation tool, instructions manual, foam for the case)	**AX102061**
Optimax Individual Components	
Fiber Cleaver	**A0408829**
Installation Tool LC (does not include tool-clamp)	**AX102062**
Installation Tools ST Compatible and SC (includes tool-clamp)	**A0403634**
Microscope	**AX100910**
Refurbishing Materials (80 alcohol wipes and a black felt tip marker)	**AX100951**
Installation Instruction Manual, LC	**AX102063**
Installation Instruction Manual, SC	**PX101318**
Installation Instruction Manual, ST Compatible	**PX101317**
Installation & Training Video, CD (see literature ordering form on the web)	**NOT0651**
Crimp Tool complete with die	**A0403641**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

*For 900 µm buffered fiber only. For Optimax Single-mode termination on jacketed fiber, please use the appropriate Accessory Kit.

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Fiber*Express* Connectors

Epoxy Field Installable Connectors

A0390851 Optical Fiber Field Installable Epoxy Connector, ST Compatible



Epoxy Field Installable Connector

Epoxy Field Installable Connectors are available as Multimode and Single-mode ST Compatible and SC field installable connectors. They require heat-cured epoxy and polishing.

Both types have a ceramic ferrule. Each connector comes complete with all the parts necessary for termination of tight buffered fibers as well as jacketed fibers. Parts include crimp sleeves, boots, cord adapter and dust cap.

Description	Belden Part Number	
	Multimode	Single-mode
Fiber*Express* Connectors		
Epoxy Field Installable Connector		
ST Compatible	**A0390851**	**AX101412**
SC Simplex	**AX100919**	**AX101411**
SC Duplex	**AX100929**	

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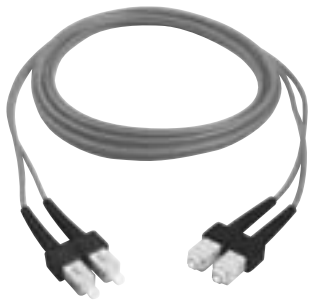
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Pre-Connectorized Assemblies

Fiber*Express* Patch Cords

AX200057 Patch Cord Multimode SC Duplex (568SC)



Fiber*Express* Patch Cords

Fiber*Express* Duplex Patch Cord Assemblies are of the highest quality available. They are assembled and 100% optically tested in our factory prior to shipment. All patch cords are built with high-quality connectors and cables which guarantees superior performance and excellent reliability.

Description	Belden Part Number			
	Multimode, FX300, 62.5 µm	Multimode, FX600, 50 µm	Multimode, FX2000, 50 µm	Single-mode SPC
Fiber*Express* Pre-Connectorized Assemblies				
Duplex Patch Cord				
ST-ST, 2 m (6 ft.)	70102419	AX200341	AX200799	AX200090
ST-ST, 3 m (10 ft.)	70102420	AX200459	AX200795	AX200091
ST-ST, 5 m (16 ft.)	70102447	AX200413	AX200800	AX200092
568SC-568SC, 2 m (6 ft.)	AX200056	AX200084	AX200603	AX200094
568SC-568SC, 3 m (10 ft.)	AX200057	AX200082	AX200589	AX200095
568SC-568SC, 5 m (16 ft.)	AX200058	AX200280	AX200624	AX200096
LC duplex-LC duplex, 2 m (6 ft.)	AX200517	AX200527	AX200664	AX200507
LC duplex-LC duplex, 3 m (10 ft.)	AX200518	AX200528	AX200665	AX200508
LC duplex-LC duplex, 5 m (16 ft.)	AX200519	AX200529	AX200666	AX200509
MTRJ-MTRJ, 2 m (6 ft.)	AX101122	AX101139	AX200801	AX101157
MTRJ-MTRJ, 3 m (10 ft.)	AX101123	AX101138	AX200802	AX101156
MTRJ-MTRJ, 5 m (16 ft.)	AX101125	AX101137	AX200803	AX101155
Hybrid Patch Cord				
568SC-ST, 3 m (10 ft.)	AX200060	AX200196	AX200900	AX200421
LC duplex-ST, 3 m (10 ft.)	AX200699	AX200695	AX200809	AX200698
LC duplex-568SC, 3 m (10 ft.)	AX200580	AX200581	AX200668	AX200667
MTRJ-ST, 3 m (10 ft.)	AX101133	AX101151	AX200810	AX101166
MTRJ-568SC, 3 m (10 ft.)	AX101128	AX101143	AX200797	AX101161
Single-ended (pigtails)				
ST-open, 2 m (6 ft.)	70100390	AX200458	AX200811	AX200097
SC-open, 2 m (6 ft.)	70101714	AX200192	AX200653	AX200098
LC-open, 2 m (6 ft.)	AX200657	AX200658	AX200660	AX200659
MTRJ(m)-open, 3 m (10 ft.)	AX101366	AX101367	AX200812	AX101368

Also available as Simplex Patch Cords or custom assemblies, please contact Customer Service for more details.

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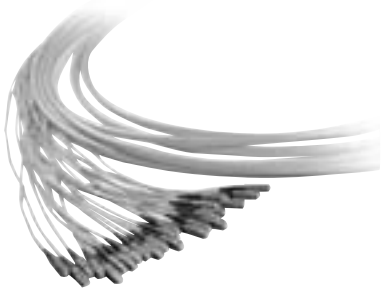
Fiber*Express* Pre-Connectorized Assemblies

Cable Assemblies

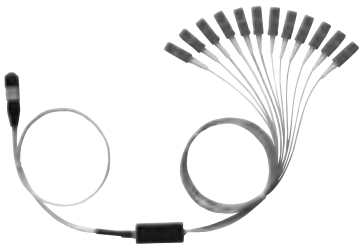
AX250105 MPO Cable Assembly



Multi-fiber Cable Assembly



900 µm Fan-out Assembly



MPO Cable Assembly

MPO Cable Assemblies are multi-fiber cables using single MPO connectors 6, 8 and 12-fiber that are used to interconnect pre-terminated devices such as Fiber*Express* Pre-terminated Modules and Fiber*Express* Bars. Depending on the application, MPO Cable Assemblies can use Ribbon Cables or Loose Tube cables. MPO cables are available in lengths of up to 500 meters with a pulling-eye for ease of deployment.

Multi-fiber Cable Assembly

Multi-fiber Cable Assemblies are factory-terminated fiber cables of various constructions (distribution, breakout or ribbon) using simplex, duplex or multi-fiber connectors. They are available in configurations from 2-fiber up to 144-fiber with various kinds of fan-out constructions, lengths and geometry to suit virtually any application.

Description	Belden Part Number	
	Multimode, FX300, 62.5 µm	Multimode, FX600, 50 µm
Fiber*Express* Pre-Connectorized Assemblies		
MPO Cable Assembly, FOMC, MPO(f)-MPO(f)		
1 pulling eye, OFNP, 12 fibers, 10 m (33 ft.)	AX250021	AX250345
1 pulling eye, OFNP, 12 fibers, 20 m (66 ft.)	AX250105	AX250376
1 pulling eye, OFNP, 12 fibers, 50 m (164 ft.)	AX250349	AX250065
1 pulling eye, OFNP, 12 fibers, 75 m (246 ft.)	AX250060	AX250066
1 pulling eye, OFNP, 12 fibers, 100 m (328 ft.)	AX250061	AX250067
	Multimode, FX2000, 50 µm	Single-mode
1 pulling eye, OFNP, 12 fibers, 10 m (33 ft.)	AX250457	AX250224
1 pulling eye, OFNP, 12 fibers, 20 m (66 ft.)	AX250412	AX250106
1 pulling eye, OFNP, 12 fibers, 50 m (164 ft.)	AX250387	AX250071
1 pulling eye, OFNP, 12 fibers, 75 m (246 ft.)	AX250413	AX250072
1 pulling eye, OFNP, 12 fibers, 100 m (328 ft.)	AX250458	AX250073
Also available in 6 or 8-fiber MPO Cable Assemblies, please contact Customer Service for more details.		
Multi-fiber Cable Assembly, MPO(m)-ST		
Multimode FX300, 62.5 µm, 12 fibers	NXC-RPML-PGPNNN-STPFBN-N-01.5	
Multimode FX600, 50 µm, 12 fibers	NXC-RPNL-PGPNNN-STPFBN-N-01.5	
Multimode FX2000, 50 µm, 12 fibers	NXC-RPFL-PGPNNN-STPFBN-N-01.5	
Single-mode, 12 fibers	NXC-RPSL-PGANNN-STSFBN-N-01.5	
Multi-fiber Cable Assembly, MPO(m)-SC		
Multimode FX300, 62.5 µm, 12 fibers	NXC-RPML-PGPNNN-SCPFBN-N-01.5	
Multimode FX600, 50 µm, 12 fibers	NXC-RPNL-PGPNNN-SCPFBN-N-01.5	
Multimode FX2000, 50 µm, 12 fibers	NXC-RPFL-PGPNNN-SCPFBN-N-01.5	
Single-mode, 12 fibers	NXC-RPSL-PGANNN-SCSFBN-N-01.5	
Multi-fiber Cable Assembly, MPO(m)-LC		
Multimode, FX300, 62.5 µm, 12 fibers	NXC-RPML-PGPNNN-LCPFBN-N-01.5	
Multimode FX600, 50 µm, 12 fibers	NXC-RPNL-PGPNNN-LCPFBN-N-01.5	
Multimode FX2000, 50 µm, 12 fibers	NXC-RPFL-PGPNNN-LCPFBN-N-01.5	
Single-mode, 12 fibers	NXC-RPSL-PGANNN-LCSFBN-N-01.5	
Multi-fiber Cable Assembly, MPO(m)-MTRJ(m)		
Multimode FX300, 62.5 µm, 12 fibers	NXC-RPML-PGPNNN-JBPFBN-N-01.5	
Multimode FX600, 50 µm, 12 fibers	NXC-RPNL-PGPNNN-JBPFBN-N-01.5	
Multimode FX2000, 50 µm, 12 fibers	NXC-RPFL-PGPNNN-JBPFBN-N-01.5	
Single-mode, 12 fibers	NXC-RPSL-PGANNN-JBSFBN-N-01.5	

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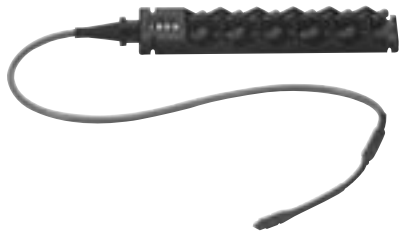
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Fiber*Express* Pre-Connectorized Assemblies

Fiber*Express* Bar

AX250001 Fiber*Express* Bar 12ST



MX100154 Fiber*Express* MPO Adapter



Fiber*Express* Bar

The Fiber*Express* Bar consists of a custom length fiber cable with, at one end, a factory pre-terminated rugged mini patch panel and, at the other end, a factory installed multi-fiber MPO connector. The very compact fiber patch panel contains 6 or 12 factory-terminated and tested connectors in a variety of styles. The ruggedness of the Fiber*Express* Bar makes it an ideal candidate for disaster recovery, industrial applications and other fiber deployment in harsh environment.

Fiber*Express* Bar Accessories

The MPO Adapter is the sleeve that provides primary alignment and locking when connecting the two MPO connectors (male to female). It has a flange and a metal clip for panel mounting and it is included with each Fiber*Express* Bar (1m with male connector).

The 19 in. Rack Mount Housing is a 1U metal panel that holds 1 Fiber*Express* Bar. It has a live hinge on the left-hand side and swings out giving access to the MPO connection and facilitate cable management and slack storage when used with the Slack Storage Tray.

The Front Cover is a smoked Plexiglas cover that protects the fiber cords connected to the Fiber*Express* Bar. It has 2 push rivets for positive locking and easy handling.

The Slack Storage Tray attaches to the back of the 19 in. Rack Mount Housing to facilitate cable management and slack storage. It has a storage capacity of 5 meters of 12-fiber ribbon cable.

The Wall Mount Enclosure can contain one Fiber*Express* Bar.
It is made of heavy gauge steel and has a locking cover.

Description	Belden Part Number	
	Multimode, FX300, 62.5 µm	Multimode, FX600, 50 µm
Fiber*Express* Pre-Connectorized Assemblies		
Fiber*Express* Bar		
12 ST type, MPO (m), 1 m	**AX250001**	**AX250052**
6 SC duplex, MPO (m), 12 fibers, 1 m	**AX250005**	**AX250054**
6 MT-RJ, MPO (m), 12 fibers, 1 m	**AX250178**	**AX250179**
12 LC, MPO (m), 1 m	**AX250539**	**AX250540**
	Multimode, FX2000, 50 µm	Single-mode
12 ST type, MPO (m), 1 m	**AX250459**	**AX250009**
6 SC duplex , MPO (m), 12 fibers, 1 m	**AX250460**	**AX250011**
6 MT-RJ, MPO (m), 12 fibers, 1 m	**AX250461**	**AX250180**
12 LC, MPO (m), 1 m	**AX250541**	**AX250542**

Also available for 6 fibers, please contact Customer Service for more details.

Fiber*Express* Bar Accessories	
MPO Adapter (6 or 12 fibers) included with each Fiber*Express* Bar (1 m - Male)	**MX100154**
19 in. Rack Mount Housing for Fiber*Express* Bar, Gray	**AX100331**
19 in. Rack Mount Housing for Fiber*Express* Bar, Black	**AX100330**
Front Cover for Fiber*Express* rack mount housing	**AX100332**
Slack Storage Tray for Fiber*Express* Bar, (capacity: 5 meters) including top cover, Gray	**AX100329**
Slack Storage Tray for Fiber*Express* Bar, (capacity: 5 meters) including top cover, Black	**AX100328**
Wall Mount Enclosure, can contain one bar, Black	**AC200004**

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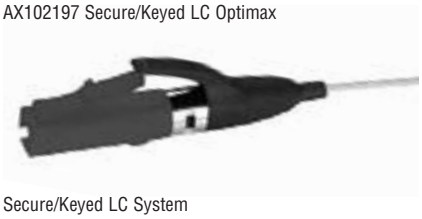
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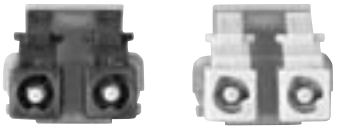
Fiber*Express* Secure/Keyed LC System

Optimax Field Installable Connectors and Patch Cords & Pigtails

AX102197 Secure/Keyed LC Optimax



Secure/Keyed LC System



Fiber*Express* Secure/Keyed LC System

The Fiber*Express* Secure/Keyed LC System allows for physical segregation of networks segments in secure fiber cabling infrastructures. All Secure/Keyed LC products are available with 6 different keying options each carrying a different color to facilitate network administration. The keying detail inside the connector is totally tamper-resistant and cannot be re-produced inside a standard LC connector to violate the network security. All products comply with the FOCIS 10 standard and optical performance exceeds all industry standards for SFF connectors.

The Secure/Keyed LC Optimax field installable connectors are available in Multimode 50 µm laser-optimized and 62.5 µm fiber versions. They are high-quality connectors that use a ceramic ferrule with a physical contact (PC) polish for Multimode connectors.

The Secure/Keyed LC Patch Cords and Pigtails are offered in Multimode 62.5 µm (FX300), 50/125 µm (FX600) and laser-optimized 50/125 µm (FX2000) for the most demanding network performance.

Description	Belden Part Number					
	K1, Red	K2, Green	K3, Yellow	K4, Black	K5, Orange	K6, Blue
Fiber*Express* Secure/Keyed LC System						
Secure/Keyed LC Optimax*						
Multimode 62.5 µm**	AX102203	AX102204	AX102205	AX102206	AX102207	AX102208
Multimode 50 µm**	AX102197	AX102198	AX102199	AX102200	AX102201	AX102202
**For 900 µm buffered fiber only. The same accessory kit (AX101984) is used for 2 mm jacketed cable connector termination as for our regular Optimax LC offering.						
Secure/Keyed LC Duplex Patch Cord, KEYx-KEYx*						
2 m (6 ft.), Multimode FX300, 62.5 µm	AX201365	AX201366	AX201367	AX201368	AX201369	AX201370
2 m (6 ft.), Multimode FX600, 50 µm	AX201383	AX201384	AX201385	AX201386	AX201387	AX201388
2 m (6 ft.), Multimode FX2000, 50 µm	AX201401	AX201402	AX201403	AX201404	AX201405	AX201406
3 m (10 ft.), Multimode FX300, 62.5 µm	AX201371	AX201372	AX201373	AX201374	AX201375	AX201376
3 m (10 ft.), Multimode FX600, 50 µm	AX201389	AX201390	AX201391	AX201392	AX201393	AX201394
3 m (10 ft.), Multimode FX2000, 50 µm	AX201407	AX201408	AX201409	AX201410	AX201411	AX201412
5 m (16 ft.), Multimode FX300, 62.5 µm	AX201377	AX201378	AX201379	AX201380	AX201381	AX201382
5 m (16 ft.), Multimode FX600, 50 µm	AX201395	AX201396	AX201397	AX201398	AX201399	AX201400
5 m (16 ft.), Multimode FX2000, 50 µm	AX201413	AX201414	AX201415	AX201416	AX201417	AX201418
Secure/Keyed LC Duplex Hybrid Patch Cord, KEYx-LCD*						
2 m (6 ft.), Multimode FX300, 62.5 µm	AX201419	AX201420	AX201421	AX201422	AX201423	AX201424
2 m (6 ft.), Multimode FX600, 50 µm	AX201437	AX201438	AX201439	AX201440	AX201441	AX201442
2 m (6 ft.), Multimode FX2000, 50 µm	AX201455	AX201456	AX201457	AX201458	AX201459	AX201460
3 m (10 ft.), Multimode FX300, 62.5 µm	AX201425	AX201426	AX201427	AX201428	AX201429	AX201430
3 m (10 ft.), Multimode FX600, 50 µm	AX201443	AX201444	AX201445	AX201446	AX201447	AX201448
3 m (10 ft.), Multimode FX2000, 50 µm	AX201461	AX201462	AX201463	AX201464	AX201465	AX201466
5 m (16 ft.), Multimode FX300, 62.5 µm	AX201431	AX201432	AX201433	AX201434	AX201435	AX201436
5 m (16 ft.), Multimode FX600, 50 µm	AX201449	AX201450	AX201451	AX201452	AX201453	AX201454
5 m (16 ft.), Multimode FX2000, 50 µm	AX201467	AX201468	AX201469	AX201470	AX201471	AX201472
Secure/Keyed LC Duplex Hybrid Patch Cord, KEYx-SCD*						
2 m (6 ft.), Multimode FX300, 62.5 µm	AX201473	AX201474	AX201475	AX201476	AX201477	AX201478
2 m (6 ft.), Multimode FX600, 50 µm	AX201491	AX201492	AX201493	AX201494	AX201495	AX201496
2 m (6 ft.), Multimode FX2000, 50 µm	AX201509	AX201510	AX201511	AX201512	AX201513	AX201514
3 m (10 ft.), Multimode FX300, 62.5 µm	AX201479	AX201480	AX201481	AX201482	AX201483	AX201484
3 m (10 ft.), Multimode FX600, 50 µm	AX201497	AX201498	AX201499	AX201500	AX201501	AX201502
3 m (10 ft.), Multimode FX2000, 50 µm	AX201515	AX201516	AX201517	AX201518	AX201519	AX201520
5 m (16 ft.), Multimode FX300, 62.5 µm	AX201485	AX201486	AX201487	AX201488	AX201489	AX201490
5 m (16 ft.), Multimode FX600, 50 µm	AX201503	AX201504	AX201505	AX201506	AX201507	AX201508
5 m (16 ft.), Multimode FX2000, 50 µm	AX201521	AX201522	AX201523	AX201524	AX201525	AX201526
Secure/Keyed LC Pigtail, KEYx-open*						
2 m (6 ft.), Multimode FX300, 62.5 µm	AX201527	AX201528	AX201529	AX201530	AX201531	AX201532
2 m (6 ft.), Multimode FX600, 50 µm	AX201533	AX201534	AX201535	AX201536	AX201537	AX201538
2 m (6 ft.), Multimode FX2000, 50 µm	AX201539	AX201540	AX201541	AX201542	AX201543	AX201544

Other Patch Cord lengths and configurations may be available, please contact Customer Service for more details.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.* Patent Pending.

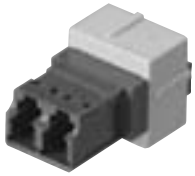
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Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips and Fiber*Express* Manager Modules

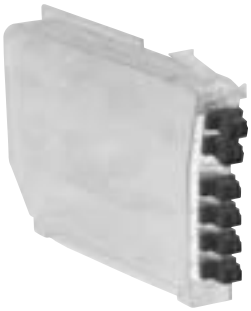
AX102098 Secure/Keyed LC Adapter Module



AX102124 Secure/Keyed LC Adapter Strip



AX102114 Secure/Keyed LC Fiber*Express* Manager Module



Fiber*Express* Secure/Keyed LC System

The Fiber*Express* Secure/Keyed LC System allows for physical segregation of networks segments in secure fiber cabling infrastructures. All Secure/Keyed LC products are available with 6 different keying options each carrying a different color to facilitate network administration. The keying detail inside the connector is totally tamper-resistant and cannot be re-produced inside a standard LC connector to violate the network security. All products comply with the FOCIS 10 standard and optical performance exceeds all industry standards for SFF connectors.

The Secure/Keyed LC Adapter Modules and Adapter Strips can be used in all mounting hardware for workstation area, Consolidation Point or Telecom Room applications.

The Secure/Keyed LC Fiber*Express* Manager Modules can be used in 19 and 23 inch Fiber*Express* Manager Shelves to provide a high-density management system of up to 1920 terminated fibers per rack.

Description	Belden Part Number					
	K1, Red	K2, Green	K3, Yellow	K4, Black	K5, Orange	K6, Blue
Fiber*Express* Secure/Keyed LC System						
Secure/Keyed LC Adapter Module*						
Gray holder	AX102089	AX102090	AX102091	AX102092	AX102093	AX102094
Almond holder	AX102095	AX102096	AX102097	AX102098	AX102099	AX102100
White holder	AX102101	AX102102	AX102103	AX102104	AX102105	AX102106
Black holder	AX102107	AX102108	AX102109	AX102110	AX102111	AX102112
Secure/Keyed LC Fiber*Express* Adapter Strip*						
12 fibers	AX102119	AX102120	AX102121	AX102122	AX102123	AX102124
24 fibers	AX102125	AX102126	AX102127	AX102128	AX102129	AX102130
Secure/Keyed LC Fiber*Express* Manager Module*						
12 fibers	AX102113	AX102114	AX102115	AX102116	AX102117	AX102118
24 fibers	AX102310	AX102311	AX102312	AX102313	AX102314	AX102315

* Patent Pending.

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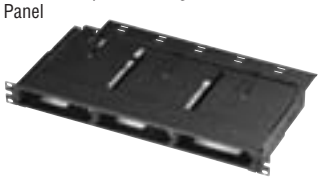
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Fiber*Express* Manager
Rack Components and Modules

AX100934 Fiber*Express* Manager Shelf



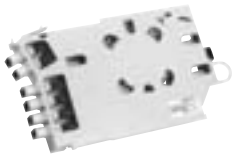
AX101943 Fiber*Express* Manager 1U Rack Mount Patch Panel



AX102032 Fiber*Express* Manager 1U Cable Management Accessory



AX101525 Connector Module Pre-terminated MPO-MT-RJ



Fiber*Express* Manager Shelf

Fiber*Express* modules are rack-mounted using Fiber*Express* Manager Shelves. The shelves provide the total system with extra high connection density while facilitating cable routing and patch cord management. For 19- or 23-inch rack: 19 in. shelf holds up to 12 modules; 23 in. shelf holds up to 16 modules.

Fiber*Express* Manager 1U

The Fiber*Express* Manager 1U Rack Mount Patch Panel is a low-cost, compact assembly designed for interconnection or splicing of optical fiber cables, using up to three Fiber*Express* Manager Modules. The low-profile design minimizes rack space to only 45 mm (1.75 in.). An optional Fiber*Express* Manager 1U Cable Management Accessory is also available.

Fiber*Express* Manager Connector Module

The Connector Module is the basic building block of the Fiber*Express* Manager. It is designed with a unique release mechanism that allows it to slide from the shelf like a PC card, easing management of patch cords.

Description	Belden Part Number	
	Gray	Black
Fiber*Express* Manager		
Fiber*Express* Manager		
Shelf, 23 in., 10.9 kg (24 lb)	**AX100934**	**AX100935**
Shelf, 19 in., 8.2 kg (18 lb)	**AX101084**	**AX101085**
1U, Rack Mount Patch Panel, 19 in., 5 kg (11 lb)	**AX101944**	**AX101943**
1U, Cable Management Accessory, 19 in., 1 kg (2 lb)	**AX102033**	**AX102032**

Description	Belden Part Number					
	ST Type	SC Simplex	SC Duplex	SC Duplex (ST in)	LC	FC
Fiber*Express* Manager						
Fiber*Express* Manager Connector Module						
Metal Sleeve, Multimode, 6 fibers	**AX101089**		**AX101092**			
Zirconia Ceramic, Single-mode, 6 fibers	**AX100936**	**AX100943**	**AX100944**			
Metal Sleeve, Multimode, 12 fibers	**AX101187**		**AX101714**	**AX101120**	**AX101528**	
Zirconia Ceramic, Single-mode, 12 fibers	**AX101186**		**AX101713**	**AX101119**	**AX101527**	
Zirconia Ceramic, Single-mode, 12 UPC pigtails			**AX101715**			
Metal Sleeve, Multimode, 24 fibers					**AX102306**	
Zirconia Ceramic, Single-mode, 24 fibers					**AX102305**	
Zirconia Ceramic, Single-mode/Multimode, 6 fibers						**AX100937**
	Multimode 62.5 µm		Multimode 50 µm		Single-mode	—
MPO(m)-ST type, 12 pre-terminated	**AX101189**		**AX101190**		**AX101188**	
MPO(m)-SC Duplex, 12 pre-terminated	**AX101091**		**AX101114**		**AX101090**	
MPO(m)-MT-RJ(m), 12 pre-terminated	**AX101525**		**AX101526**		**AX101524**	
MPO(m)-LC, 12 pre-terminated	**AX101530**		**AX101531**		**AX101529**	
MPO(m)-LC, 24 pre-terminated	**AX102309**		**AX102308**		**AX102307**	
MT-RJ, Beige, Multimode, 12 fibers						**AX101096**
MT-RJ, Blue, Single-mode, 12 fibers						**AX101581**

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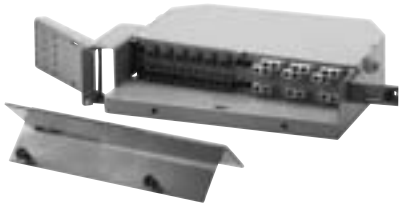
Fiber*Express* Patch Panels

Rack Mount Patch Panels

AX100041 Fiber*Express*, 12/24 Port (1U) Rack Mount Patch Panel



AX100069 Fiber*Express*, 24/48 Port (2U) Rack Mount Patch Panel



AX100078 Fiber*Express* (3U) Rack Mount Patch Panel



AX100115 Fiber*Express*, 48/96 Port (4U) Rack Mount Patch Panel



Fiber*Express* Rack Mount Patch Panel 1U and 2U

The Fiber*Express* 1U and 2U Rack Mount Patch Panels are equipped with a special hinge that allows easy access to the rear of the patch panel without disturbing the optical fiber cable. A specially designed front panel allows connector protection and easy routing of optical fiber patch cords. The Fiber*Express* Rack Mount Patch Panels are also compatible with our 203 mm (8 in.) Splice Organizer Trays. This allows the optical fiber cable to be either terminated with fiber single-ended patch cords or field-installable connectors. The patch panels can be used with ST Compatible, SC, 568SC, FC, LC or MT-RJ adapters strips (ordered separately).

The Fiber*Express* 1U Rack Mount Patch Panel is a low-cost, compact assembly designed for interconnection or splicing of optical fiber cables, from 12 up to 48 fibers if MT-RJ or LC double density adapter strips are used. The low-profile design minimizes rack space to only 45 mm (1.75 in.). An optional smoked Plexiglass front cover is also available.

The Fiber*Express* 2U Rack Mount Patch Panel offers a high fiber capacity, 96 fibers if using double density MT-RJ or LC adapter strips. The Fiber*Express* 2U comes equipped with a smoked Plexiglass front cover that protects fiber connections while allowing for quick visual inspection.

Fiber*Express* Rack Mount Patch Panel 3U

The Fiber*Express* 3U Rack Mount Patch Panel can accommodate up to 96 optical fiber connections using MT-RJ or LC connectors. The connector panel is mounted on a sliding drawer for easy access to the back side (cable side) of the panel. The Fiber*Express* 3U Rack Mount Patch Panel can be used with either optical fiber single-ended patch cords or field-installable connectors. If optical single-ended patch cords are to be used, organizer trays are easily accessible via the removable front access pull-out drawer. (Trays must be ordered separately.)

The Fiber*Express* 3U Rack Mount Patch Panel is a compact cross-connect assembly for the termination of optical fiber cables. The low-profile design minimizes required rack space to 127 mm (5 in.). It is compatible with ST Compatible, SC, 568SC, MT-RJ, LC and FC adapters strips (ordered separately).

Fiber*Express* Rack Mount Patch Panel 4U

The Fiber*Express* 4U Rack Mount Patch Panel is an economical solution for the protection of optical fiber terminations and splices, up to 192 optical fibers if using MT-RJ or LC connectors. The connector panel, accepting the Universal Adapter Strips, is located inside the enclosure and swings out (left or right) to give easy access to the cable and splices.

The Fiber*Express* 4U Rack Mount Patch Panel is a compact Cross-Connect enclosure for the cross-connection, interconnection or splicing of optical fiber cables. The low-profile design minimizes required rack space to 178 mm (7 in.). It can be used with ST Compatible, SC, 568SC, MT-RJ, LC and FC adapters strips (ordered separately).

Description	Belden Part Number
Fiber*Express* Patch Panels	
Fiber*Express* Rack Mount Patch Panel 1U*	
Gray	**AX100042**
Black	**AX100041**
Fiber*Express* Rack Mount Patch Panel 2U*	
Gray	**AX100069**
Black	**AX100068**
Fiber*Express* Rack Mount Patch Panel 3U	
Gray	**AX100078**
Black	**AX100077**
Fiber*Express* Rack Mount Patch Panel 4U	
Gray	**AX100115**
Black	**AX100116**

If Single-ended patch cords are to be spliced to the fiber cable, don't forget to order Splice Organizer Trays or Kits. Both these, and the Universal Adapter Strips can be ordered in the Fiber*Express* Accessories section.

*IMPORTANT: The Fiber*Express* 1U accepts two (2) 203 mm (8 in.) splice trays. The 2U accepts four (4) 203 mm (8 in.) splice trays.

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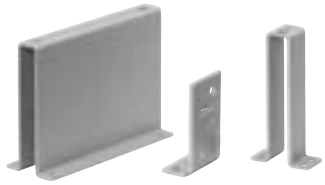
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Fiber*Express* Patch Panels

Rack Mount Accessories and Wall Mount Patch Panels

AX101800 127 mm (5 in.) Universal Offset Bracket Kit, for 19 in. and 23 in. Racks 1U



AX101802 23 in. Rack Universal Extension Bracket for 1U and 2U



AX100047 Right Side Cable Entry Bracket for 1U



AX100045 Front Cover for 1U



AX100543 Large Wall Mount



Fiber*Express* Rack Mount Patch Panels 1U and 2U Accessories

The accessories provide additional panel mounting flexibility for racks, cabinets and cable entry.

Description	Belden Part Number
Fiber*Express* Patch Panels	
Rack Mount Accessories (1U and 2U)	
127 mm (5 in.) Universal Offset Bracket Kit:	
for 19 in. and 23 in. racks (1U), Black	**AX101799**
for 19 in. and 23 in. racks (1U), Gray	**AX101800**
for 19 in. and 23 in. racks (2U), Black	**AX101797**
for 19 in. and 23 in. racks (2U), Gray	**AX101798**
23 in. Universal extension bracket, Black	**AX101801**
23 in. Universal extension bracket, Gray	**AX101802**
Right side cable entry bracket (1U), Black	**AX100046**
Right side cable entry bracket (1U), Gray	**AX100047**
Right side cable entry bracket (2U), Black	**AX100073**
Right side cable entry bracket (2U), Gray	**AX100074**
Front Cover (1U), Smoked Plexiglass	**AX100045**

Fiber*Express* Wall Mount Patch Panel

The Fiber*Express* Wall Mount Patch Panel Series is an economical solution for the protection of optical fiber terminations and splices in hostile environments.

Using the Fiber*Express* Universal Adapter Strips (ordered separately), the Wall Mount Patch Panels allow for flexible and customized patch panel design. They are compatible with most industry standard connections: ST Compatible, SC, 568SC, MT-RJ, LC and FC.

Available in gray and black, the Fiber*Express* Wall Mount Patch Panels have an ergonomic design, rugged construction and compact assemblies to effectively protect your optical fiber terminations and splices.

Description	Belden Part Number
Fiber*Express* Patch Panels	
Wall Mount	
Small, Gray	**AX100496**
Small, Black	**AX100495**
Medium, Gray	**AX100541**
Medium, Black	**AX100540**
Large, Gray	**AX100543**
Large, Black	**AX100542**

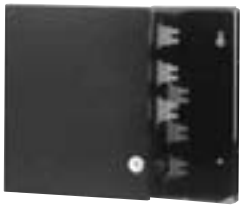
If optical Single-ended patch cords are to be spliced to the fiber cable, don't forget to order Splice Organizer Trays or Kits in Fiber*Express* Accessories section. Universal Adapter Strips can be ordered in Fiber*Express* Patch Panels section.

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AX100541 Medium Wall Mount



AX100495 Small Wall Mount



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Fiber*Express* Patch Panels Accessories

Universal Optical Fiber Adapter Strips and Accessories

AX101729 Adapters loaded with 6 LC Duplex



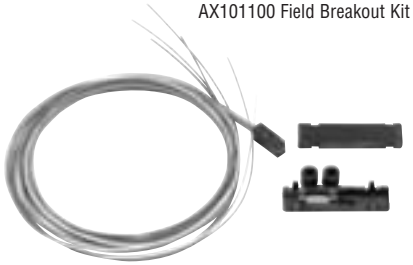
AX100094 Adapters loaded with 3 SC Duplex



AX100066 Blank Strip



AX101100 Field Breakout Kit



A0649869 Optical Fiber Splice Organizer Kits and Trays



AX100945 Flex Kit



AX101098 Splice Holder Kit



Optical Fiber Adapter Strips

Universal Optical Fiber Adapter Strips are pre-loaded with six (single density) or 12 (double density) adapter sleeves. Two types of adapter sleeves are available: Phosphor Bronze and Zirconia Ceramic. Adapter sleeves are used as the connecting interface between two optical fiber connectors.

A **Blank adapter strip** is also available and can be used with any Fiber*Express* Patch Panel to fill in unused adapter strip openings.

Optical Fiber Accessories

The Field Breakout Kit is designed to attach to one tube of a loose-tube cable. Each kit has either six or twelve 900 µm tubes that hold each of the coated fibers. For each end of the cable, one kit is needed for every tube. For example, a 12-fiber 62.5 µm cable contains two 6-fiber tubes. This cable would require four kits, two for each end.

Optical Fiber Splice Organizer Kits provide the accessories necessary for installing the Fiber*Express* Fiber Patch Panels, as well as other fiber terminals that accommodate the standard Belden organizer tray.

The Flex Kit contains tubes and manifolds designed to split cables into individual fiber strands, and is suitable for 6 fibers up to 12 fibers. It is necessary for use with loose tube cables or when the fiber cable count does not match the number of connections in the Fiber*Express* Manager Connector Module. The Flex Kit tubes help to maintain proper fiber bend radius. One kit is required per 12 modules (one 19 in. shelf).

A **Splice Holder Kit** can be used to hold fusion or mechanical splices.
Each splice holder can handle up to 6 splices.

Description	Belden Part Number	
	Phosphor Bronze, Multimode	Zirconia Ceramic, Single-mode
Fiber*Express* Optical Fiber Adapter Strips		
Single Density, Black		
Loaded with 6 ST Compatible Adapters	AX100088	AX100534
Loaded with 3 SC Duplex Adapters	AX100094	AX101407
Loaded with 6 SC Simplex Adapters	AX100092	AX100538
Loaded with 6 FC Adapters	AX100090	AX100536
Loaded with 6 LC Duplex Adapters	AX101729	AX101731
MT-RJ, loaded with 6 MT-RJ, Multimode/Single-mode	AX101115	
Double Density, Black		
Loaded with 12 ST Compatible Adapters	AX100080	AX100528
Loaded with 6 SC Duplex Adapters	AX100098	AX101409
Loaded with 12 SC Simplex Adapters	AX100084	AX100532
Loaded with 12 FC Adapters	AX100082	AX100530
Loaded with 12 LC Duplex Adapters	AX101741	AX101743
MT-RJ, loaded with 12 MT-RJ, Multimode/Single-mode	AX101117	
Blank Strip		
Black	AX100066	
Fiber*Express* Accessories		
Optical Fiber Field Breakout Kit		
6 fibers, 1/pack	AX101100	
12 fibers, 1/pack	AX101101	
Optical Fiber Splice Organizer Kit		
Splice kit, tray, 203 mm (8 in.)	A0649869	
Splice kit, tray, 305 mm (12 in.)	A0318904	
Optical Fiber Splice Tray		
Fusion, 203 mm (8 in.)	A0335015	
Fusion, 305 mm (12 in.)	A0316446	
Universal (mechanical or fusion), 203 mm (8 in.)	AX100079	
Universal (mechanical or fusion), 305 mm (12 in.)	A0394328	
Tray cover, 203 mm (8 in.)	A0394331	
Tray cover, 305 mm (12 in.)	A0394330	
Flex Kit	AX100945	
Splice Holder Kit	AX101098	

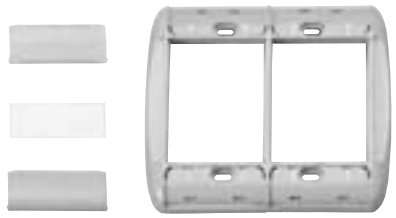
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Fiber*Express* Outlets
MediaFlex Plates and Inserts

AX101869 MediaFlex Plate, Double Gang



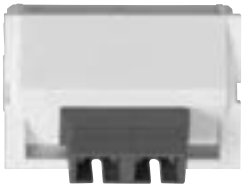
AX101874 MediaFlex Adapter Box, Double Gang



AX101756 MediaFlex MDVO (style) Insert, 2-port, Angled



AX101937 MediaFlex SC Duplex Insert, Angled



MediaFlex Plate

MediaFlex Plates are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets.

MediaFlex Plates can be mounted over standard NEMA type outlet boxes and rings to provide support for a variety of MediaFlex Adapters and Inserts. The fully modular construction combined with the front access design provides extensive configuration flexibility for current and future network needs. MediaFlex Plates are available in Single Gang and Double Gang configurations.

The Double Gang faceplate comes with a stand-off ring included in the package. This ring allows for easy mounting with virtually any industry electrical box or mud/adapter rings, therefore providing added installation flexibility.

Each plate has the capacity of up to 6 ports per Single Gang and 12 ports per Double Gang.

MediaFlex Adapter Box

MediaFlex Surface Adapter Boxes are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets.

MediaFlex Surface Adapter Boxes can be mounted over standard NEMA type outlet boxes and rings to provide support for the MediaFlex plates. The MediaFlex Surface Adapter Boxes are available as a Double Gang configuration. The Double Gang box allows more room for cable management and bend radius control.

MediaFlex MDVO (style) Insert

MediaFlex MDVO-style Inserts are available in a 2-port configuration in both Flush and Angled versions. They are compatible with all GigaFlex and MDVO Modules (EZ-MDVO and Multimedia). The inserts are two units high for the flush version and three units high for the angled version. Therefore three flush inserts or two angled inserts are required to fully populate a Single Gang MediaFlex Plate.

MediaFlex Multimedia Insert

MediaFlex Multimedia Inserts provide optimum flexibility in configuring multimedia workstation outlets that respond to any present or future network needs. MediaFlex Multimedia Inserts along with other MediaFlex Inserts allow for easy configuration of outlets. All inserts are front loaded and easily snapped in and out of the MediaFlex Plates for easy installation and maintenance.

MediaFlex Multimedia Inserts are available in Angled versions only in order to allow for proper management of cable bend radius. The inserts are three units high, therefore two inserts are required to fully populate a Single Gang faceplate and four inserts will fully populate a Double Gang faceplate.

Description	Belden Part Number					
	Gray	Almond	Elec. White	Black	White	Ivory
Fiber*Express* Outlets						
MediaFlex Plate						
Single Gang	AX101745	AX101746	AX101747	AX101748	AX102608	AX102569
Double Gang	AX101869	AX101870	AX101871	AX101872	AX102609	AX102570
MediaFlex Adapter Box						
Single Gang	AX102480	AX102481	AX102482	AX102483	AX102484	AX102485
Double Gang	AX101873	AX101874	AX101875	AX101876	AX102610	AX102571
MediaFlex MDVO (style) Insert						
2-port, Flush, bag of 10 units	AX101749	AX101750	AX101751	AX101752	AX102612	AX102572
2-port, Angled, bag of 10 units	AX101753	AX101754	AX101755	AX101756	AX102613	AX102573
MediaFlex SC Duplex						
SC Duplex Single-mode	AX101935	AX101936	AX101937	AX101938	AX102619	AX102649
SC Duplex Multimode	AX101939	AX101940	AX101941	AX101942	AX102620	AX102650

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

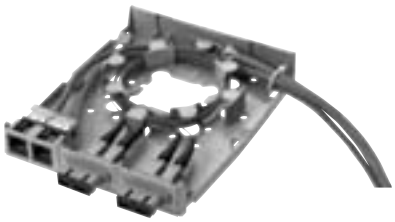
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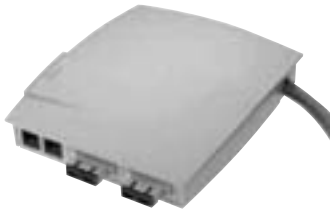
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Fiber*Express* Outlets

MDVO Multimedia Outlet Boxes & Modules and Multi-User Outlet Boxes

A0643205 MDVO Multimedia Outlet Box, shown here as terminated

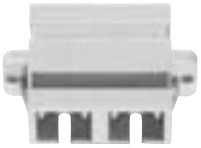




A0407005 MDVO SC Fiber Module



A0649254 SC Duplex Adapter



A0407010 MDVO ST Compatible Fiber Module



AX101467 MDVO MT-RJ Fiber Module



AX100222 Multi-User Outlet Box, shown here with modules



MDVO Multimedia Outlet Box

The MDVO Multimedia Outlet Box brings unique versatility for multimedia work area installations. The box design provides cable management and helps maintain cable bend radius. The outlet box's low profile design and side-entry offers better protection for patch cords. The outlet box can accept up to six EZ-MDVO, GigaFlex or MDVO Multimedia Modules or three SC Duplex adapters.

The MDVO Multimedia Outlet Box can be mounted directly on the wall or attached to standard electrical boxes. Included with the MDVO Multimedia box are three SC Duplex Mounting bezels and three MDVO Adapters.

MDVO Multimedia Modules

MDVO Multimedia Modules address audio/video and fiber applications. Fiber modules are available for LC Duplex, SC Simplex, ST Compatible multimode and MT-RJ multimode & single-mode connections. The SC Duplex Adapter is a fiber adapter sleeve with flanges that mounts into the SC Duplex mounting bezel (included in the MDVO Multimedia Outlet box). Audio/video modules are available for SVHS, RCA, BNC and Video F connections.

Multi-User Outlet Box

The Multi-User Outlet Box is a versatile box that can be used in many different applications. The outlet box can accommodate up to 24 connections of any type, UTP, fiber or coax. The outlet box is ideal for use as a multi-user telecommunications assembly, or simply as a high-density multimedia telecommunications outlet. The Multi-User Outlet Box can also be used as a wall mounted patch panel in confined areas, such as shallow rooms and cabinets.

Description	Belden Part Number			
	Gray	Almond	White	Black
Fiber*Express* Outlets				
MDVO Multimedia Outlet Box				
6-port	**A0643205**	**A0643206**	**A0643207**	**A0643208**
Please note that SC Duplex adapters must be ordered separately (A0649254).				
MDVO Multimedia Module				
LC Duplex Multimode	**AX102209**	**AX102210**	**AX102211**	**AX102212**
LC Duplex Single-mode	**AX102213**	**AX102214**	**AX102215**	**AX102216**
SC Simplex, Multimode, Blue insert	**A0407003**	**A0407004**	**A0407005**	**A0407006**
SC Duplex Adapter, Multimode		**A0649254**		
ST Compatible, Multimode	**A0407007**	**A0407008**	**A0407009**	**A0407010**
MT-RJ, Multimode		**AX101467**		
MT-RJ, Single-mode, Blue		**AX101466**		
Custom multimedia connectors are also available, please contact Customer Service for more details.				
Multi-User Outlet Box				
24-port	**AX100219**	**AX100220**	**AX100221**	**AX100222**

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

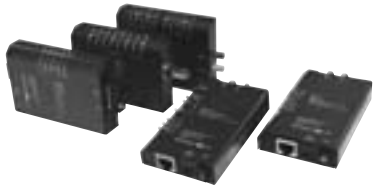
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Network Connectivity Products

Media Converters, Transceivers & Hubs and Network Tester

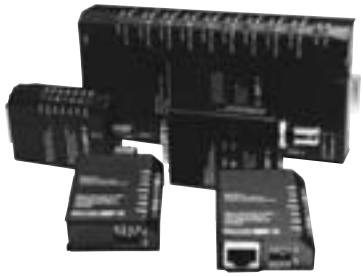
Media Converters



AX-1912 Media Converter Rack



AX050, 70 and 80 Transceivers and AX-509 Ethernet Hub



AX-110BT Realtime 10/100 Base-TX Ethernet Network Test Unit



Media Converters for Ethernet and Fast Ethernet

Media Converters enable the connection of dissimilar network cabling types, while maintaining the same network speed. A legacy Thinnet segment can be connected to a 10Base-T Hub or switch port with an AX-200 Converter or, link two different 10Base-T networks together over a multimode fiber optic link with a pair of AX-270s. Connect a legacy Thinnet segment over fiber with the AX-280 converter. The AX-5270 can be used for interbuilding links or attached to a fiber backbone.

Transceivers and Ethernet Hubs

The AX-50, 70 and 80 Transceivers enable the connection of a legacy AUI port to 10Base-T, Thinnet, or Fiber Optic media. The transceiver is powered from the host and requires no external power supply.

The AX-509 Ethernet Hub has an AUI port which accepts UTP, Fiber Optic or BNC transceivers. Specified for use by many U.S. Government Agencies. Includes a 110v/12v power supply.

Realtime 10/100 Base-TX Ethernet Network Test Unit

The AX-110BT Realtime 10/100 Base-TX Ethernet Network Test Unit is a cost effective way to quickly determine a network's operating condition. Plug the unit's patch cord into the tester, then into any open RJ-45 jack in an office, cubicle or conference room. Immediately see if the jack is a live network node capable of either 100 Mb/s or 10 Mb/s. Next check patch cord continuity and polarity. Connect the downlink to a PC to check NIC card link, speed and full or half duplex capabilities. Connect the uplink to a hub or switch port to verify link and speed.

Description	Belden Part Number
Network Connectivity Products	
Media Converter	
10Base-T/10Base2, RJ-45 to BNC	**AX-200**
10Base-T/10Base-FL, RJ-45 to ST-Compatible fiber connectors	**AX-270**
10Base2/10Base-FL, BNC to ST-Compatible fiber connectors	**AX-280**
100Base-TX/100Base-FX, SC-Compatible fiber connectors	**AX-5270SC**
100Base-TX/100Base-FX, ST-Compatible fiber connectors	**AX-5270ST**
Media Converter Rack	
Holds up to 12 converters and multi lead power supplies, 19 in. rack-mount ready	**AX-1912-MCR**
Power Supply, 4-lead 110v/12v, powers up to 4 converters	**AX-270P4U**
Power Supply, 8-lead 110v/12v, powers up to 8 converters	**AX-270P8U**
Transceivers and Ethernet Hubs	
UTP Transceiver, 10Base-T, AUI to RJ-45, side port	**AX-50**
UTP Transceiver, 10Base-T, AUI to RJ-45, rear port	**AX-50R**
Fiber Transceiver, 10Base-FL, AUI to ST-Compatible	**AX-70**
Thinnet Transceiver, 10Base2, AUI to BNC	**AX-80**
Ethernet Hub with 8 RJ-45 10Base-T ports and 1 AUI port	**AX-509**
Network Tester	
Realtime 10/100 Base-TX Ethernet Network Test Unit	**AX-110BT**

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Cable Selection Guide

Introduction

The Belden line of Optical Fiber Cables represents a new selection of the best optical fiber cable products offered by the consolidated resources of the Belden organization. The unmatched resources of Belden have now generated a complete line of indoor and outdoor cable products in tight buffered and loose tube constructions. This offering now expands the available applications for Belden optical fiber cable.

Customer Service

Most of our optical fiber cables are available from stock. Many of these are available off-the-shelf from distributors. If you have a new or unusual application, or you cannot find a optical fiber cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1 for additional information.

Cable Selection Guide

Optical Fiber Selection

Type	Grade	Fiber Size (µ)	Standards Compliance	Link Length (m)	Data Rate (Gb)
Multimode	6	50/125	exceeds TIA/EIA-568-B.3-1 ISO 11801 OM3	500	10
	5	50/125	TIA/EIA-568-B.3-1 ISO 11801 OM3	300	10
	4	50/125	TIA/EIA-568-B.3	600	1
	3	62.5/125	TIA/EIA-568-B.3	1,000	1
	2	62.5/125	TIA/EIA-568-B.3	550	1
	1▲	62.5/125	FDDI grade†	—	—
Single-mode	—	—	ITU G.652.c/d††	—	—

▲ Grade 1 fibers are available upon request.

† Used in most current cable plants, but not recommended for future installations, except as patch cordage

†† Low water peak fiber with advantages for CWDM applications

Color Code Charts

Jacket Color Chart

Cable Type	Jacket Color
Loose Tube & Outside Plant Cables	Black
Industrial Tray Cables	Orange
Tight Buffered Cables	
Grades 2,3,4	Orange
Grades 5,6	Aqua
Single-mode	Yellow

Nonstandard jacket colors are available upon request.

Fiber Sub-unit Color Code Chart*

Fiber/Tube No.	Color	Fiber/Tube No.	Color
1	Blue	7	Red
2	Orange	8	Black
3	Green	9	Yellow
4	Brown	10	Violet
5	Slate	11	Rose
6	White	12	Aqua

*Per EIA/TIA 598-A

Optical Specifications

Grade:	2	3	4	5	6	Single-mode Enhanced[6]
Glass Type:	62.5/125µ	62.5/125µ	50/125µ	50/125µ	50/125µ	
Operating Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1550
Min. OFL[1] Bandwidth (MHz-km)	200/500	200/500	500/500	1500/500	3000/500	—
Min. Laser[2] Bandwidth (MHz-km)	220/500	385/500	510/500	2000/500	4000/500	—
Max. Attenuation Loose Tube (dB/km)	3.25/1.0	3.25/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.40/0.30
Max. Attenuation Tight Buffered[3] (dB/km)	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	0.80/0.50
100 Mb Fast Ethernet Min. Link Length (meters S/L[4])	300/2000	300/2000	300/2000	300/2000	300/2000	—/5000
1 Gb Ethernet Min. Link Length (meters S/L[4])	300/550	500/1000	600/600	1000[5]/600	1000[5]/600	—/5000
10 Gb Ethernet Min. Link Length (meters S/L[4])	35/300	35/300	85/300	300/300	500/300	—/10,000

[1] OFL = Overfilled Launch

[2] Effective Modal Bandwidth, determined by RML or DMD performance specifications

[3] Max. Attenuation for Tight Buffered, Ribbon, Micro-Loose Tube and Loose Tube Plenum Cables

[4] S/L = Short wavelength (850 nm) / Long wavelength (1310 nm)

[5] >2000 meters for engineered links

[6] Low water peak Single-Mode suitable for CWDM use complies with ITU G.652.c/d

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Interconnect Cable — Simplex and Duplex

Tight Buffer — Riser & Plenum Rated

Applications

- Patch panels
- Workstation equipment connections
- Horizontal distribution in open office environments

Product Description

Interconnect Cables are designed for low fiber-count premises environments. They are small and very flexible, making them ideal for confined spaces. Their aesthetic appearance makes these cables suitable for use in open office environments. Available in 1 or 2 fibers. One sub-unit is marked to permit easy identification of transmit and receive fibers. Length markings to facilitate installation.

Jacket Material	PVC
Tight Buffer	PVC
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

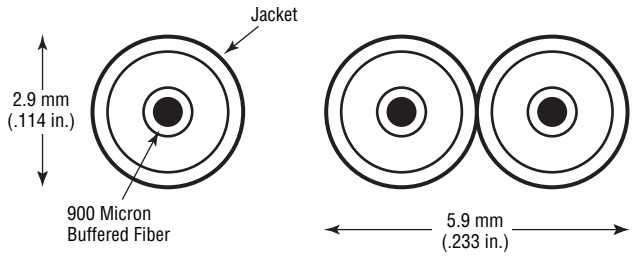
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	200 N/cm
Impact Resistance (EIA-455-25)	20 Impacts @ 1.0 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Interconnect Cable Series										
Riser (NEC/CEC OFNR/OFN FT4)										
1	**M97112**	**M9A001**	**M9C001**	**M9W001**	0.114	2.9	6	9	90	400
2	**M96915**	**M9A002**	**M9C002**	**M9W002**	0.11 x 0.23	2.9 x 5.9	12	18	180	801
Plenum (NEC/CEC OFNP/OFN FT6)										
1	**M98086**	**M9A003**	**M9C003**	**M9W003**	0.114	2.9	6	9	90	400
2	**M96919**	**M9A004**	**M9C004**	**M9W004**	0.11 x 0.23	2.9 x 5.9	13	19	180	801

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Distribution Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated

Applications

- Low to high fiber count requirements
- In-building backbone
- Fiber-to-the-desk applications
- Computer room

Product Description

Flexible thermoplastic jacket provides excellent handling characteristics. Fibers and cable sub-units are color coded for easy identification. Length markings in meters for easy determination of cable length. Full dielectric construction, no grounding required. For Riser offering, MSHA approved cables are available.

Jacket Material	
Riser & Non-unitized Plenum	PVC
Unitized Plenum	PVDF
Low Smoke Zero Halogen	LSZH
Tight Buffer	
Riser & Plenum	PVC
Low Smoke Zero Halogen	LSZH
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange (Green for LSZH only)
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

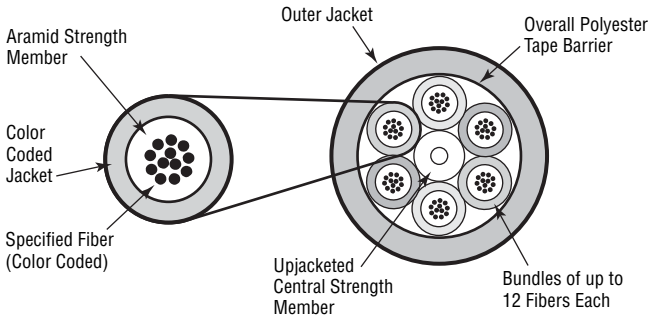
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262
Low Smoke Zero Halogen	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



2 – 12 FIBERS **>12 – 144 FIBERS**

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Distribution Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated *(continued)*

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Distribution Cable Series										
Riser (NEC/CEC OFNR/OFN FT4)										
2	M9B037	M9A037	M9C037	M9W037	0.184	4.67	13	19	180	801
4	M9B038	M9A038	M9C038	M9W038	0.200	5.08	16	24	195	867
6	M9B039	M9A039	M9C039	M9W039	0.220	5.59	19	28	270	1201
8	M9B040	M9A040	M9C040	M9W040	0.235	5.97	22	33	270	1201
12	M9B042	M9A042	M9C042	M9W042	0.255	6.48	27	40	300	1334
24	M9B601*	M9A601*	M9C601*	M9W601*	0.325	8.26	42	63	390	1735
24	M9B602	M9A602	M9C602	M9W602	0.496	12.60	83	124	960	4270
36	M9B604	M9A604	M9C604	M9W604	0.644	16.36	137	204	1440	6405
48	M9B606	M9A606	M9C606	M9W606	0.627	15.93	131	195	945	4203
72	M9B609	M9A609	M9C609	M9W609	0.750	19.10	195	290	1350	6005
96	M9B622	M9A622	M9C622	M9W622	0.895	22.70	290	432	1983	8820
144	M9B619	M9A619	M9C619	M9W619	0.964	24.49	314	467	2745	12210
Composite Riser Cables										
6xSM/12x62.5	M96992									
12xSM/12x62.5	M96963									
6xSM/12x50	M96909									
12xSM/12x50	M96908									
Plenum (NEC/CEC OFNP/OFN FT6)										
2	M9B043	M9A043	M9C043	M9W043	0.184	4.67	14	21	180	801
4	M9B044	M9A044	M9C044	M9W044	0.174	4.42	13	19	195	867
6	M9B045	M9A045	M9C045	M9W045	0.190	4.83	16	24	270	1201
8	M9B046	M9A046	M9C046	M9W046	0.222	5.64	19	28	270	1201
12	M9B048	M9A048	M9C048	M9W048	0.225	5.72	22	33	300	1334
24	M9B611*	M9A611*	M9C611*	M9W611*	0.330	8.38	40	60	390	1735
24	M9B612	M9A612	M9C612	M9W612	0.493	12.52	89	132	1263	5618
36	M9B614	M9A614	M9C614	M9W614	0.594	15.09	134	199	1913	8509
48	M9B616	M9A616	M9C616	M9W616	0.599	15.21	131	195	1245	5538
72	M9B620	M9A620	M9C620	M9W620	0.754	19.15	197	293	2093	9310
96	M9B623	M9A623	M9C623	M9W623	0.904	22.96	268	399	2160	9608
144	M9B621	M9A621	M9C621	M9W621	1.047	26.59	365	543	3645	16213
Composite Plenum Cables										
6xSM/6x62.5	M97174									
6xSM/12x62.5	M97041									
12xSM/12x62.5	M97219									
6xSM/6x50	M97412									
6xSM/12x50	M97411									
12xSM/12x50	M96780									
LSZH (NEC/CEC OFNR/OFN FT4)										
2	M9B100	M9A100	M9C100	M9W100	0.184	4.67	15	22	180	800
4	M9B101	M9A101	M9C101	M9W101	0.200	5.08	17	25	195	867
6	M9B102	M9A102	M9C102	M9W102	0.220	5.59	21	31	270	1201
8	M9B103	M9A103	M9C103	M9W103	0.235	5.97	24	36	270	1201
12	M9B104	M9A104	M9C104	M9W104	0.255	6.48	29	43	300	1334
16	M9B105	M9A105	M9C105	M9W105	0.347	8.80	43	63	315	1400
24	M9B107	M9A107	M9C107	M9W107	0.386	9.80	54	79	450	2000
36	M9B111	M9A111	M9C111	M9W111	0.798	20.00	214	313	1619	7200
48	M9B112	M9A112	M9C112	M9W112	0.835	21.20	237	347	1619	7200
72	M9B114	M9A114	M9C114	M9W114	0.883	22.40	270	395	1619	7200
96	M9B116	M9A116	M9C116	M9W116	0.973	24.70	364	532	1619	7200
144	M9B120	M9A120	M9C120	M9W120	1.087	27.60	384	561	1619	7200

Construction for LSZH cables differs from the drawing. Alternative fiber counts are available.

*Single jacket design.

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Breakout Style Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated

Applications

- Low to medium fiber count requirements
- In-building backbone or horizontal deployment
- Office wiring
- Factory floor automation and harsh environment installations

Product Description

Full dielectric construction, no grounding required. Available with 2 to 36 fibers. Fiber subunits are color coded for easy identification. Length markings in meters for easy determination of cable length. For Riser offering, MSHA approved cables are available.

Outer Jacket Material	
Riser & Plenum	PVC
Plenum	PVDF
Low Smoke Zero Halogen	LSZH
Sub-unit Jacket Material	
Riser & Plenum	PVC
Low Smoke Zero Halogen	LSZH
Tight Buffer	
Riser & Plenum	PVC
Low Smoke Zero Halogen	LSZH
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange (Green for LSZH only)
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

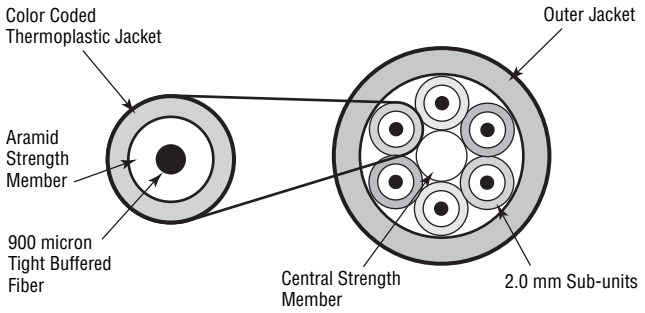
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262
Low Smoke Zero Halogen	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



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Breakout Style Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated *(continued)*

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Breakout Cable Series										
Riser (NEC/CEC OFNR/OFN FT4)										
2	**M9B005**	**M9A005**	**M9C005**	**M9W005**	0.260	6.60	24	36	180	801
4	**M9B006**	**M9A006**	**M9C006**	**M9W006**	0.321	8.15	35	52	345	1535
6	**M9B007**	**M9A007**	**M9C007**	**M9W007**	0.358	9.09	54	80	543	2415
8	**M9B008**	**M9A008**	**M9C008**	**M9W008**	0.405	10.29	69	103	600	2700
10	**M9B009**	**M9A009**	**M9C009**	**M9W009**	0.455	11.56	86	128	600	2700
12	**M9B010**	**M9A010**	**M9C010**	**M9W010**	0.514	13.06	110	164	600	2700
18	**M9B011**	**M9A011**	**M9C011**	**M9W011**	0.520	13.21	104	155	600	2700
24	**M9B012**	**M9A012**	**M9C012**	**M9W012**	0.590	14.99	135	201	600	2700
36	**M9B083**	**M9A083**	**M9C083**	**M9W083**	0.680	17.27	168	250	600	2700
Plenum (NEC/CEC OFNP/OFN FT6)										
2	**M9B013**	**M9A013**	**M9C013**	**M9W013**	0.230	5.84	20	30	180	801
4	**M9B014**	**M9A014**	**M9C014**	**M9W014**	0.263	6.68	30	45	345	1535
6	**M9B015**	**M9A015**	**M9C015**	**M9W015**	0.309	7.85	41	61	465	2068
8	**M9B016**	**M9A016**	**M9C016**	**M9W016**	0.336	8.53	55	82	600	2700
10	**M9B017**	**M9A017**	**M9C017**	**M9W017**	0.385	9.78	73	109	600	2700
12	**M9B018**	**M9A018**	**M9C018**	**M9W018**	0.391	9.93	65	97	600	2700
18	**M9B019**	**M9A019**	**M9C019**	**M9W019**	0.456	11.58	89	132	600	2700
24	**M9B020**	**M9A020**	**M9C020**	**M9W020**	0.544	13.82	117	174	600	2700
36	**M9B082**	**M9A082**	**M9C082**	**M9W082**	0.612	15.54	154	229	600	2700
LSZH (NEC/CEC OFNR/OFN FT4)										
2	**M9B130**	**M9A130**	**M9C130**	**M9W130**	0.290	7.37	39	57	270	1200
4	**M9B131**	**M9A131**	**M9C131**	**M9W131**	0.351	8.92	38	55	285	1268
6	**M9B132**	**M9A132**	**M9C132**	**M9W132**	0.358	9.09	52	76	543	2415
8	**M9B133**	**M9A133**	**M9C133**	**M9W133**	0.405	10.29	67	98	600	2700
10	**M9B134**	**M9A134**	**M9C134**	**M9W134**	0.455	11.56	110	162	600	2700
12	**M9B135**	**M9A135**	**M9C135**	**M9W135**	0.514	13.06	110	161	600	2700
18	**M9B136**	**M9A136**	**M9C136**	**M9W136**	0.520	13.21	103	151	600	2700
24	**M9B137**	**M9A137**	**M9C137**	**M9W137**	0.590	14.99	138	202	600	2700
36	**M9B138**	**M9A138**	**M9C138**	**M9W138**	0.680	17.27	171	250	600	2700

2.5 mm Breakout Cables are also available.

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Industrial Armored Cable

Tight Buffer — Riser & Plenum Rated

Applications

- Industrial environments
- Rugged installations
- Manufacturing plants
- Mining operations
- Telecommunications and data trunk
- Inter- and intra-building installations

Product Description

Heavy duty construction with interlocking aluminum armor (steel available on request) provides excellent mechanical protection from cutting or crushing and eliminates need for innerduct. Rodent resistant. Also available for outside plant. Loose tube design available on request.

Jacket Material	
Riser & Plenum	PVC
Buffer Tube	PVC
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Armor	Aluminum
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

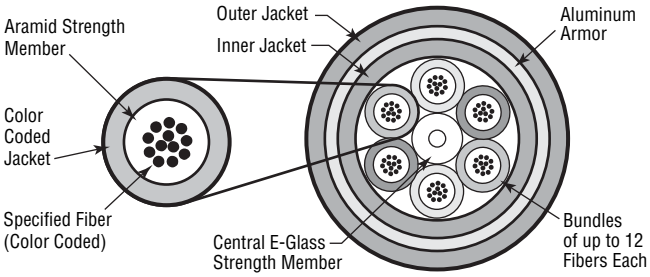
Ratings

Riser	
UL Type	OFCR
cUL Type	OFC FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFCP
cUL Type	OFC FT6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 3.0 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Industrial Armored Series										
Riser (NEC/CEC OFCR/OFC FT4)										
6	M9B230	M9A230	M9C230	M9W230	0.570	14.50	126	188	270	1201
12	M9B231	M9A231	M9C231	M9W231	0.620	15.70	149	222	300	1334
24	M9B232*	M9A232*	M9C232*	M9W232*	0.670	17.00	179	266	390	1735
24	M9B233	M9A233	M9C233	M9W233	0.845	21.46	263	391	600	2700
36	M9B234	M9A234	M9C234	M9W234	0.970	24.64	368	548	600	2700
48	M9B235	M9A235	M9C235	M9W235	0.970	24.64	368	548	600	2700
72	M9B236	M9A236	M9C236	M9W236	1.095	27.82	481	716	600	2700
96	M9B237	M9A237	M9C237	M9W237	1.245	31.62	625	930	600	2700
144	M9B238	M9A238	M9C238	M9W238	1.320	33.55	675	1005	600	2700
Plenum (NEC/CEC OFCP/OFC FT6)										
6	M9B240	M9A240	M9C240	M9W240	0.471	12.00	87	129	270	1201
12	M9B241	M9A241	M9C241	M9W241	0.506	12.90	103	153	300	1334
24	M9B242*	M9A242*	M9C242*	M9W242*	0.631	16.00	151	225	390	1735
24	M9B243	M9A243	M9C243	M9W243	0.781	19.84	289	430	600	2700
36	M9B244	M9A244	M9C244	M9W244	0.881	22.38	309	460	600	2700
48	M9B245	M9A245	M9C245	M9W245	0.906	23.01	320	476	600	2700
72	M9B246	M9A246	M9C246	M9W246	1.056	26.82	451	671	600	2700
96	M9B247	M9A247	M9C247	M9W247	1.256	31.90	608	905	600	2700
144	M9B248	M9A248	M9C248	M9W248	1.331	33.81	687	1022	600	2700

*Single jacket design.

All optical fiber products can be supplied in compliance with RoHS regulations.

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Tactical Cable

Tight Buffer — Outdoor

Applications

- ENG vehicles
- Outdoor news, sporting or other events
- Digital camera transmission
- Military communications
- Re-deployable communications

Product Description

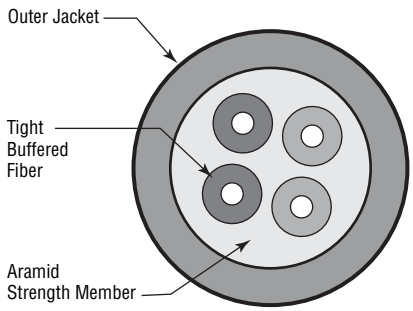
Small and lightweight with a rugged jacket, Tactical Cable provides a durable design for repeated deployment and retrieval cycles and a superior level of crush resistance. Designed to military standards. 50/125 micron fiber available on request.

Jacket Material	UV-resistant PU
Buffer	Polyester
Strength Member	Aramid Yarn
Color Code (Jacket & Fibers)	Per EIA/TIA 598-A, see page 10.2

Specifications

Temperature Range	
Storage	-70 to +85°C
Operating	-55 to +85°C
Crush Resistance (EIA-455-41)	440 N/cm
Impact Resistance (EIA-455-25)	200 Impacts @ 2.2 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	8 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Belden Part Number		Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Tactical Series								
Outdoor								
2	**M96571**	**M96566**	0.217	5.5	19	28	330	1468
4	**M96551**	**M96639**	0.225	5.7	21	31	330	1468
6	**M96572**	**M96567**	0.236	6.0	23	34	330	1468
8	**M96573**	**M96568**	0.250	6.3	26	39	330	1468
10	**M96574**	**M96569**	0.265	6.7	28	42	330	1468
12	**M96575**	**M96570**	0.280	7.1	31	46	330	1468

Please contact the Technical Support Group for proper connectivity integration and installation guidance.

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Ribbon Cable

Riser and Plenum Rated

Applications

- Inter-equipment connections
- NEBS applications

Product Description

Small size is ideal for connections in tight spaces. Color coded fibers. Suitable for use with standard ribbon connectors. Flexible, with half-inch minimum bend radius. Tight center-to-center tolerances. Optional identification printing available.

Jacket Material	PVC
Strength Member	Aramid Yarn
Color Code (Jacket & Fibers)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	
Single-mode	Yellow
62.5/125µm	Orange
50/125 µm / 1 Gbe	Orange
50/125 µm / 10 Gbe	Aqua

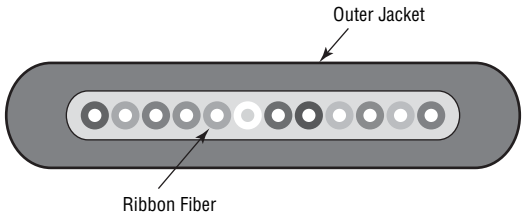
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Ribbon Series										
Riser (NEC/CEC OFNR/OFN FT4)										
2	**M9B630**	**M9A630**	**M9C630**	**M9W630**	0.114	2.9	5	7	100	444
4	**M9B631**	**M9A631**	**M9C631**	**M9W631**	0.78 x 0.115	2.0 x 2.9	4	6	100	444
6	**M9B632**	**M9A632**	**M9C632**	**M9W632**	0.78 x 0.137	2.0 x 3.5	6	9	100	444
8	**M9B633**	**M9A633**	**M9C633**	**M9W633**	0.78 x 0.158	2.0 x 4.0	6	9	100	444
12	**M9B634**	**M9A634**	**M9C634**	**M9W634**	0.78 x 0.180	2.0 x 4.6	7	10	100	444
Plenum (NEC/CEC OFNP/OFN FT6)										
2	**M9B640**	**M9A640**	**M9C640**	**M9W640**	0.114	2.9	5	7	100	444
4	**M9B641**	**M9A641**	**M9C641**	**M9W641**	0.78 x 0.115	2.0 x 2.9	4	6	100	444
6	**M9B642**	**M9A642**	**M9C642**	**M9W642**	0.78 x 0.137	2.0 x 3.5	6	9	100	444
8	**M9B643**	**M9A643**	**M9C643**	**M9W643**	0.78 x 0.158	2.0 x 4.0	6	9	100	444
12	**M9B644**	**M9A644**	**M9C644**	**M9W644**	0.78 x 0.180	2.0 x 4.6	7	10	100	444

Fiber Ribbon Cable is to be sold as bulk cable and has not been qualified for field connectorization.

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Single Jacket, All Dielectric Cable

Loose Tube — Outdoor, and Indoor/Outdoor Riser Rated

Applications

- Medium to high fiber count requirements
- Inter-building duct installations
- Lashed aerial
- Indoor/outdoor
- Industrial outside plant

Product Description

Gel-filled buffer tube prevents water migration. All-dielectric strength member. Available as Riser rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Full dielectric construction, no grounding required. Available with up to 216 fibers. Length markings in meters for easy determination of cable length.

Jacket Material	
Outdoor	PE
Riser	PVC
Buffer Tube	PBT
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

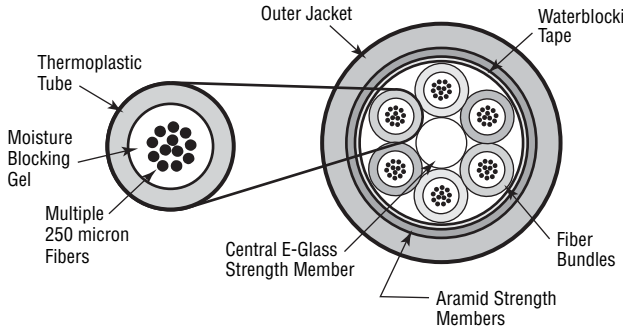
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666

Specifications

Temperature Range (Outdoor Series)	
Storage	-50 to +80°C
Operating	-40 to +70°C
Temperature Range (Riser Series)	
Storage	-40 to +80°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Loose Tube Series											
Outdoor											
6	6	**M9B510T**	**M9A510T**	**M9C510T**	**M9W510T**	0.38	9.65	44	65	600	2700
12	6	**M9B511T**	**M9A511T**	**M9C511T**	**M9W511T**	0.38	9.65	44	65	600	2700
24	6	**M9B500T**	**M9A500T**	**M9C500T**	**M9W500T**	0.38	9.65	45	67	600	2700
36	6	**M9B502T**	**M9A502T**	**M9C502T**	**M9W502T**	0.38	9.65	47	70	600	2700
48	12	**M9B505T**	**M9A505T**	**M9C505T**	**M9W505T**	0.48	12.19	70	104	600	2700
72	12	**M9B507T**	**M9A507T**	**M9C507T**	**M9W507T**	0.48	12.19	70	104	600	2700
96	12	**M9B513T**	**M9A513T**	**M9C513T**	**M9W513T**	0.55	13.89	93	138	600	2700
144	12	**M9B509T**	**M9A509T**	**M9C509T**	**M9W509T**	0.70	17.78	149	222	600	2700
216	12	**M9B520T**	**M9A520T**	**M9C520T**	**M9W520T**	0.72	18.16	148	220	600	2700
Riser (NEC/CEC OFNR/OFN FT4)											
6	6	**M9B810**	**M9A810**	**M9C810**	**M9W810**	0.38	9.65	63	94	600	2700
12	6	**M9B811**	**M9A811**	**M9C811**	**M9W811**	0.38	9.65	62	92	600	2700
24	6	**M9B812**	**M9A812**	**M9C812**	**M9W812**	0.38	9.65	61	91	600	2700
36	6	**M9B813**	**M9A813**	**M9C813**	**M9W813**	0.38	9.65	60	89	600	2700
48	12	**M9B814**	**M9A814**	**M9C814**	**M9W814**	0.48	12.19	89	132	600	2700
72	12	**M9B815**	**M9A815**	**M9C815**	**M9W815**	0.48	12.19	87	129	600	2700
96	12	**M9B816**	**M9A816**	**M9C816**	**M9W816**	0.55	13.89	114	170	600	2700
144	12	**M9B817**	**M9A817**	**M9C817**	**M9W817**	0.70	17.78	187	278	600	2700

Alternative fiber counts are available.

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Single Jacket, All Dielectric Cable

Loose Tube — Indoor/Outdoor Plenum Rated

Applications

- Medium to high fiber count requirements
- Inter-building duct installations
- Lashed aerial
- Indoor/outdoor
- Campus backbones
- Data Centers
- High Density Cable Trays

Product Description

Dry waterblocking technology used within tubes and under jacket. Available as Plenum rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Small diameter and bend radius facilitate installation in tight spaces. Full dielectric construction, no grounding required. Available with up to 144 fibers. Fibers grouped into sets of 12 for maximum density. Length markings in meters for easy determination of cable length.

Jacket Material	
Non-unitized	PVC
Unitized	PVDF
Buffer Tube	PVC
Strength Member	E-Glass and Aramid Yarn
Central Strength Member	Upjacketed
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

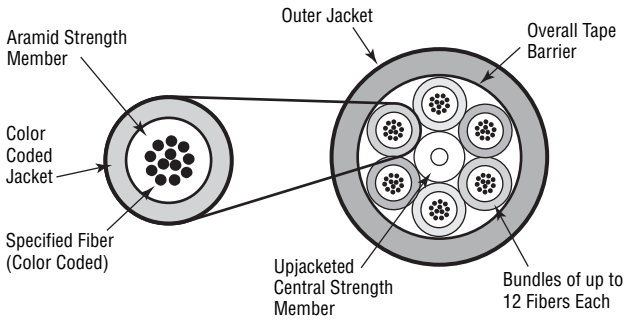
Ratings

Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-40 to +70°C
Installation	0 to +60°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



2 – 12 FIBERS **>12 – 144 FIBERS**

No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Loose Tube Series											
Plenum (NEC/CEC OFNP/OFN FT6)											
6	6	**M9B202**	**M9A202**	**M9C202**	**M9W202**	0.265	6.70	33	49	320	1423
12	12	**M9B204**	**M9A204**	**M9C204**	**M9W204**	0.265	6.70	33	49	320	1423
24	12	**M9B205**	**M9A205**	**M9C205**	**M9W205**	0.359	9.12	47	70	405	1801
36	12	**M9B206**	**M9A206**	**M9C206**	**M9W206**	0.359	9.12	47	70	405	1801
48	12	**M9B207**	**M9A207**	**M9C207**	**M9W207**	0.359	9.12	48	71	405	1801
72	12	**M9B209**	**M9A209**	**M9C209**	**M9W209**	0.429	10.90	71	106	585	2602
96	12	**M9B211**	**M9A211**	**M9C211**	**M9W211**	0.501	12.73	105	156	903	4017
144	12	**M9B215**	**M9A215**	**M9C215**	**M9W215**	0.665	16.89	189	281	1263	5618

Alternative fiber counts and hybrid constructions are available.

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Double Jacket, Armored Cable

Loose Tube – Outdoor, and Indoor/Outdoor Riser Rated

Applications

- Direct burial
- Low to high fiber count requirements
- Inter-building duct installations
- Indoor/outdoor
- Industrial outside plant

Product Description

Gel-filled buffer tube prevents water migration. Available as Riser rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Rodent resistant. Available in sizes up to 216 fibers. Length markings in meters for easy determination of cable length.

Jacket Material	
Outdoor	PE
Riser	PVC
Buffer Tube	
Outdoor	PBT
Riser	PVC
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

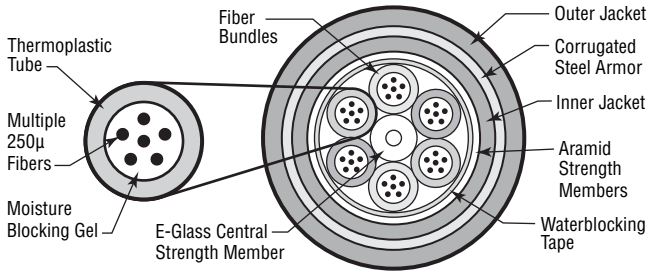
Ratings

Riser	
UL Type	OFCR
cUL Type	OFC FT4
Flame Resistance	UL 1666

Specifications

Temperature Range (Outdoor)	
Storage	-50 to +80°C
Operating	-40 to +70°C
Temperature Range (Riser)	
Storage	-40 to +80°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Loose Tube Series — Armored											
Outdoor											
6	6	**M9B381T**	**M9A381T**	**M9C381T**	**M9W381T**	0.53	13.46	101	150	600	2700
12	6	**M9B382T**	**M9A382T**	**M9C382T**	**M9W382T**	0.53	13.46	102	152	600	2700
24	6	**M9B384T**	**M9A384T**	**M9C384T**	**M9W384T**	0.53	13.46	103	153	600	2700
36	6	**M9B386T**	**M9A386T**	**M9C386T**	**M9W386T**	0.53	13.46	103	153	600	2700
48	12	**M9B389T**	**M9A389T**	**M9C389T**	**M9W389T**	0.65	16.51	144	214	600	2700
72	12	**M9B391T**	**M9A391T**	**M9C391T**	**M9W391T**	0.65	16.51	142	211	600	2700
96	12	**M9B398T**	**M9A398T**	**M9C398T**	**M9W398T**	0.69	17.53	168	250	600	2700
144	12	**M9B393T**	**M9A393T**	**M9C393T**	**M9W393T**	0.87	22.10	241	359	600	2700
216	12	**M9B400T**	**M9A400T**	**M9C400T**	**M9W400T**	0.87	22.10	241	359	600	2700
Riser (NEC/CEC OFCR/OFC FT4)											
6	6	**M9B890**	**M9A890**	**M9C890**	**M9W890**	0.54	13.72	138	205	600	2700
12	6	**M9B891**	**M9A891**	**M9C891**	**M9W891**	0.54	13.72	137	204	600	2700
24	6	**M9B892**	**M9A892**	**M9C892**	**M9W892**	0.54	13.72	136	202	600	2700
36	6	**M9B893**	**M9A893**	**M9C893**	**M9W893**	0.54	13.72	135	201	600	2700
48	12	**M9B894**	**M9A894**	**M9C894**	**M9W894**	0.66	16.76	176	262	600	2700
72	12	**M9B895**	**M9A895**	**M9C895**	**M9W895**	0.66	16.76	172	256	600	2700
96	12	**M9B896**	**M9A896**	**M9C896**	**M9W896**	0.70	17.78	206	307	600	2700
144	12	**M9B897**	**M9A897**	**M9C897**	**M9W897**	0.88	22.35	302	449	600	2700

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Double Jacket, Heavy-Duty Cable

Loose Tube — Outdoor

Applications

- Direct burial
- Harsh environments
- Applications requiring good ozone-, moisture- and weather-resistance

Product Description

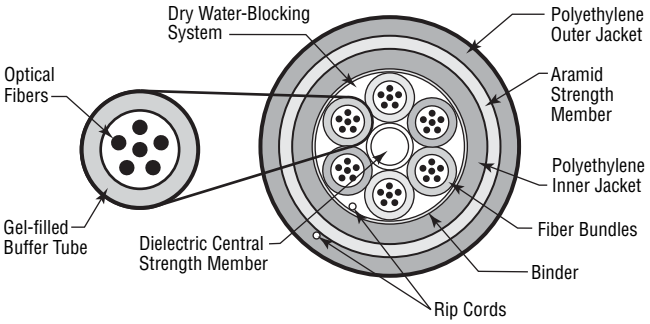
Gel-filled buffer tube prevents water migration.
Available with up to 216 fibers.

Jacket Material	
Outer Jacket:	PE
Inner Jacket:	PE
Buffer Tube	PBT
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Core Wrap	Water Swellable Tape
Color Code (Buffer)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

Specifications

Temperature Range	
Storage	-50 to +80°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Loose Tube Series — Heavy Duty											
Outdoor											
2	2	**M9B840**	**M9A840**	**M9C840**	**M9W840**	0.44	11.18	60	89	600	2700
4	4	**M9B841**	**M9A841**	**M9C841**	**M9W841**	0.44	11.18	60	89	600	2700
6	6	**M9B842**	**M9A842**	**M9C842**	**M9W842**	0.44	11.18	60	89	600	2700
8	4	**M9B843**	**M9A843**	**M9C843**	**M9W843**	0.44	11.18	60	89	600	2700
12	6	**M9B844**	**M9A844**	**M9C844**	**M9W844**	0.44	11.18	60	89	600	2700
18	6	**M9B845**	**M9A845**	**M9C845**	**M9W845**	0.44	11.18	60	89	600	2700
24	6	**M9B846**	**M9A846**	**M9C846**	**M9W846**	0.44	11.18	60	89	600	2700
36	6	**M9B847**	**M9A847**	**M9C847**	**M9W847**	0.44	11.18	60	89	600	2700
48	12	**M9B848**	**M9A848**	**M9C848**	**M9W848**	0.54	13.72	136	202	600	2700
72	12	**M9B849**	**M9A849**	**M9C849**	**M9W849**	0.54	13.72	136	202	600	2700
96	12	**M9B820**	**M9A820**	**M9C820**	**M9W820**	0.61	15.37	152	226	600	2700
144	12	**M9B821**	**M9A821**	**M9C821**	**M9W821**	0.76	19.30	255	379	600	2700
216	12	**M9B822**	**M9A822**	**M9C822**	**M9W822**	0.76	19.30	255	379	600	2700

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Central Tube Cable

Loose Tube—Outdoor, and Outdoor Armored

Applications

- Campus OSP backbones
- Drop cable
- Telecommunications and data trunk
- Direct burial (armored only)
- Lashed aerial

Product Description

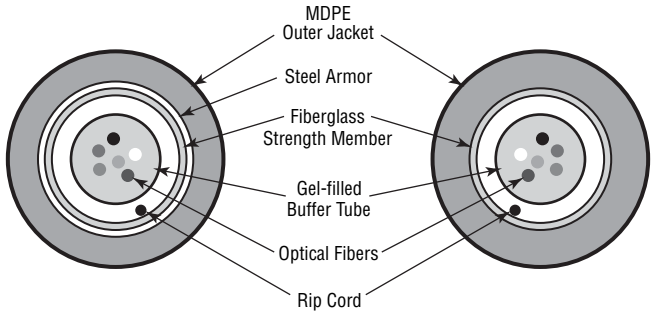
Economical option for low fiber counts. Quick and easy end preparation. Fully waterblocked with gel-filled buffer tube. No rods – easy handling. Crush, impact and abrasion resistant.

Jacket Material	PE
Buffer Tube	PBT
Core Wrap	Water Swellable Tape
Strength Member	Fiberglass
Armor	Corrugated Steel
Color Codes (Jacket & Fibers)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



SINGLE ARMOR **ALL DIELECTRIC**

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Central Tube Series										
Outdoor										
2	**M9B150**	**M9A150**	**M9C150**	**M9W150**	0.325	8.26	36	54	600	2700
4	**M9B151**	**M9A151**	**M9C151**	**M9W151**	0.325	8.26	36	54	600	2700
6	**M9B152**	**M9A152**	**M9C152**	**M9W152**	0.325	8.26	36	54	600	2700
8	**M9B153**	**M9A153**	**M9C153**	**M9W153**	0.325	8.26	36	54	600	2700
10	**M9B154**	**M9A154**	**M9C154**	**M9W154**	0.325	8.26	36	54	600	2700
12	**M9B155**	**M9A155**	**M9C155**	**M9W155**	0.325	8.26	36	54	600	2700
Outdoor Armored										
2	**M9B170**	**M9A170**	**M9C170**	**M9W170**	0.410	10.41	72	108	600	2700
4	**M9B171**	**M9A171**	**M9C171**	**M9W171**	0.410	10.41	72	108	600	2700
6	**M9B172**	**M9A172**	**M9C172**	**M9W172**	0.410	10.41	72	108	600	2700
8	**M9B173**	**M9A173**	**M9C173**	**M9W173**	0.410	10.41	72	108	600	2700
10	**M9B174**	**M9A174**	**M9C174**	**M9W174**	0.410	10.41	72	108	600	2700
12	**M9B175**	**M9A175**	**M9C175**	**M9W175**	0.410	10.41	72	108	600	2700

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

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Micro Loose Tube Breakout Style Cable

Loose Tube – Outdoor, Indoor/Outdoor OFN & Indoor/Outdoor Riser Rated

Applications

- Ducts between buildings (above or below frost lines)
- Lashed aerial
- Telecommunications and data trunk

Product Description

Easy handling and termination of a breakout style cable. Loose buffer dimensions compatible with standard connectors (900 µm). Waterblocking gel for moisture protection. Breakout kits not required for connectorization.

Jacket Material	
Outdoor	PE
Riser	PVC
General Purpose	TPE
Buffer tube	
Outdoor + Riser	PBT
Strength Elements	Aramid Yarn
Strength Member(s)	Upjacketed Aramid
Color Codes (Jacket & Fibers)	Per EIA/TIA 598-A, see page 10.2
Jacket Color	Black

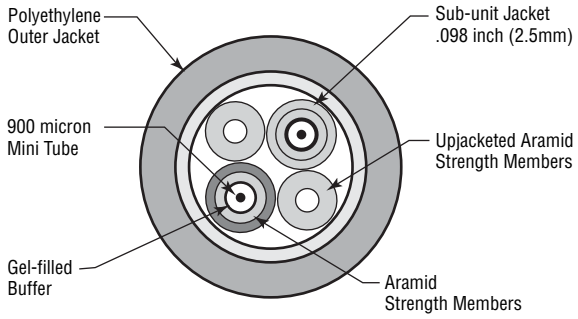
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	UL 1666
General Purpose	
UL/cUL Type	OFN
Flame Resistance	UL 1581

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	600 N/cm
Impact Resistance (EIA-455-25)	20 Impacts @ 1.0 N-m
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 10.2

Fiber Bundle Detail



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Micro Loose Tube Breakout Style Cable

Loose Tube – Outdoor, Indoor/Outdoor OFN & Indoor/Outdoor Riser Rated *(continued)*

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5 / 125µm Std. / 1 Gbe	50 / 125µm Std. / 1 Gbe	50 / 125µm 10 Gbe – 300M	Single-mode Enhanced	Inch	mm	Lbs./1000′	kg/km	Lbs.	N
Micro Loose Tube Series										
Outdoor										
1	**M9B700**	**M9A700**	**M9C700**	**M9W700**	0.340	8.64	41	61	330	1468
2	**M9B701**	**M9A701**	**M9C701**	**M9W701**	0.360	9.14	41	61	345	1535
4	**M9B702**	**M9A702**	**M9C702**	**M9W702**	0.360	9.14	39	58	285	1267
6	**M9B703**	**M9A703**	**M9C703**	**M9W703**	0.418	10.62	54	80	405	1801
8	**M9B704**	**M9A704**	**M9C704**	**M9W704**	0.478	12.14	76	113	600	2700
12	**M9B705**	**M9A705**	**M9C705**	**M9W705**	0.614	15.60	129	192	600	2700
Indoor/Outdoor OFN										
1	**M9B720**	**M9A720**	**M9C720**	**M9W720**	0.344	8.74	50	74	330	1468
2	**M9B721**	**M9A721**	**M9C721**	**M9W721**	0.364	9.25	51	76	345	1535
4	**M9B722**	**M9A722**	**M9C722**	**M9W722**	0.364	9.25	49	73	285	1267
6	**M9B723**	**M9A723**	**M9C723**	**M9W723**	0.424	10.72	68	101	405	1801
8	**M9B724**	**M9A724**	**M9C724**	**M9W724**	0.482	12.24	77	115	600	2700
12	**M9B725**	**M9A725**	**M9C725**	**M9W725**	0.618	15.70	130	193	600	2700
Indoor/Outdoor Riser										
1	**M9B740**	**M9A740**	**M9C740**	**M9W740**	0.352	8.94	54	80	330	1468
2	**M9B741**	**M9A741**	**M9C741**	**M9W741**	0.372	9.45	55	82	345	1535
4	**M9B742**	**M9A742**	**M9C742**	**M9W742**	0.372	9.45	51	76	285	1267
6	**M9B743**	**M9A743**	**M9C743**	**M9W743**	0.432	10.97	74	110	405	1801
8	**M9B744**	**M9A744**	**M9C744**	**M9W744**	0.490	12.45	94	140	600	2700
12	**M9B745**	**M9A745**	**M9C745**	**M9W745**	0.626	15.90	151	229	600	2700

Please contact the Technical Support Group for proper connectivity integration and installation guidance.

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TrayOptic® Heavy-Duty, All Dielectric Cable

Loose Tube — Indoor/Outdoor Riser Rated

Applications

- Industrial and other harsh environment applications
- Factory automation
- Direct burial

Product Description

Laser Optimized Fiber to handle Gigabit Ethernet light sources and expanded bandwidth requirements. Passes IEEE 383-2003 flame test. Waterblocking agent for moisture protection. CPE outer jacket option provides extra chemical or abrasion resistance.

Fiber Type	62.5/125µ
Jacket Material	PVC or CPE
Strength Member	Aramid Yarn
Jacket Color	Orange

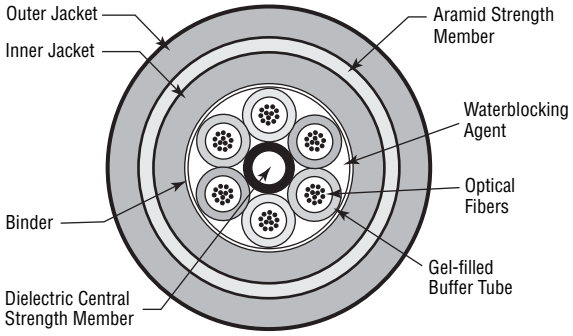
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	IEEE 383-2003

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 impacts @ 1.6N-m
Cyclic Flexing (EIA-455-104)	25 cycles, 12 lbs., 20 x OD radius min.
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Maximum Installation Load	600 lbs. (2700 N)
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Outside Diameter		PVC Jacket			CPE Jacket		
		Inches	mm	Belden Part No.	Weight Lbs./1000′	Weight kg/km	Belden Part No.	Weight Lbs./1000′	Weight kg/km
TrayOptic Series									
Riser (NEC/CEC OFNR/OFN FT4)									
2	2	0.440	11.18	**I100255**	88	131	**I100266**	83	124
4	4	0.440	11.18	**I100455**	88	131	**I100466**	83	124
6	6	0.440	11.18	**I100655**	88	131	**I100666**	83	124
8	4	0.440	11.18	**I400855**	88	131	**I400866**	83	124
12	6	0.440	11.18	**I601255**	88	131	**I601266**	83	124
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17 Commercial Networking: Training

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Belden IBDN Training

Overview



Ensuring Competency Worldwide

The Belden IBDN Training Center has been an integral part of the structured cabling industry landscape for over 14 years, having earned an international reputation for delivering the industry's most comprehensive and effective structured cabling training.

This reputation is forged on the experiences of more than 65,000 students trained worldwide since 1991. Today, the Belden IBDN Training Center serves the needs of more than 5,000 students each year. Our goal is to provide our students with the skills and knowledge necessary to ensure the highest quality and optimal performance in every Belden IBDN System that they design and install.

Ensuring competency and understanding of new technologies, techniques and industry standards is a key goal in our course development. Each Belden IBDN Training Course is regularly updated to include the most current information on Belden IBDN products and practices, as well as new developments in cabling industry standards.

Learn from the Experts

Belden IBDN instructors have combined experience of well over 100 years in the planning, design and installation of structured cabling systems. In addition to real life experiences, most are BICSI™ accredited RCDD and RCDD/LAN Specialists, and many have additional technical credentials from industry leaders such as Microsoft™ and Cisco Systems™. Many of them have taught Belden IBDN courses all around the world, and all have the industry knowledge and professional teaching style that maximizes the learning experience.

The Purpose of the Belden IBDN Training Center

To ensure solid and optimal network performance, a cabling system supplier should be evaluated on the following criteria:

- Credibility and Industry Standing
- System Offerings
- Customer Care
- Business Partners
- Warranty Program

Through the Belden IBDN Training Center, Belden ensures that our students and Business Partners consistently and accurately represent Belden IBDN Systems, products, and installation standards, with the goal of optimizing network performance.

For More Information And Registration

For information on course dates, locations and fees, please refer to:

www.BeldenIBDN.com

Or contact us at the Belden IBDN Training Center:

IBDN.training@belden.com

1-800-262-9334

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Belden IBDN Training
Course Descriptions

General Course Information

- Our courses are recognized by BICSI and earn BICSI Continuing Education Credits (CECs).
- Our courses qualify students by giving them a professional recognition that may accelerate their career advancement.
- In addition to the cabling contractor community, our courses are recognized and valued by end-customers, architects, engineers and consultants as well. If you need to increase your knowledge of structured cabling systems, the Belden IBDN Training Center is an excellent training investment.
- Our course content is offered in many different languages including English, French, Japanese, Spanish, Mandarin and Cantonese.
- Refresher courses for pre-qualified students are also available.
- Special rates and group discounts are available.
- Fees include a Certificate of Completion for selected courses, continental breakfast, coffee breaks and course materials.



Belden IBDN 305

Introduction to Belden

(By correspondence on CD Rom)

Who Should Attend:

End-users, Networking and Structured Cabling Sales People

Course Benefits:

Provides students with an overview of Belden as a leader in telecommunications and offers an overall picture of the Belden IBDN Systems and products, as well as the positioning of Belden in the industry.

What Will Be Covered:

- Introduction to cabling
- Overview of Belden IBDN Systems and products, including:
  - –GigaFlex Cables: 1200, 2400, 4800LX,
  - –Bonded-Pair Cables: DataTwist 350, MediaTwist, DataTwist 600e,
  - –GigaBIX, Fiber*Express*, IntelliMAC-Plus, PowerSense and 10GX Solutions.
- Certification and Exercises
- Case Studies
- Reference Materials

Prerequisite: *None*

Written Exam: *Yes*

BICSI CECs: *RCDD (7), INS, Level 2/Technician (7)*

Belden IBDN 201/202

Project Management for Belden IBDN including Belden IBDN System Audit

(2 days)

Who Should Attend:

Installation Managers, Installation Supervisors

Participant must be familiar with Belden IBDN Systems as well as the Certification Program

Course Benefits:

Develop the skills to recognize the scale of the project and therefore be prepared to put an efficient work plan in place in order to deliver the project on time.

Gain an understanding of the Belden IBDN System design and installation requirements as related to the Belden IBDN Certification Program.

Learn how to conduct and write audit reports.

What Will Be Covered:

- Project Manager Responsibilities
- Project Planning
- Project Execution
- Project Closing
- When, Why and How audits are conducted
- Audit Preparation
- Audit Visit
- Audit Report

Prerequisites: *Belden IBDN-303* and Belden IBDN-700**
*Taken after January 2001

Written Exam: *Yes, two*

BICSI CECs: *RCDD (14), RCDD/LAN (14), INS, Level 2/Technician (12), OSP (14), RES (12)*

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Belden IBDN Training
Course Descriptions

Belden IBDN 303

Belden IBDN Design and Concept

(2 days) — Can also be provided by correspondence on CD Rom

Who Should Attend:

Architects, Designers, Networking Consultants

Course Benefits:

Gain the ability to design a Belden IBDN Structured Cabling System.

Learn about standards and planning procedures related to the installation of structured cabling systems.

What Will Be Covered:

- Belden IBDN Systems and products:
  - –GigaFlex Cable: 1200, 2400, 4800LX,
  - –Bonded-Pair Cable: DataTwist 350, MediaTwist, DataTwist 600e,
  - –GigaBIX, Fiber*Express*, IntelliMAC-Plus, PowerSense and 10GX Solutions
- Structured Cabling Overview
- Standards Update
- Horizontal Distribution Standards
- Backbone Distribution Standards
- Entrance Facility
- Bonding and Grounding
- Reference Materials
- 60% In-Class Exercises

Prerequisite: *None*

Written Exam: *Yes*

BICSI CECs: *RCDD (14), INS, Level 2/Technician (14)*

Belden IBDN 700

Belden IBDN Installation

(2 days)

Who Should Attend:

Belden Certified System Vendor (CSV) Installers, and Distributors

Course Benefits:

Develop a fundamental understanding of a Belden IBDN Structured Cabling System.

Gain valuable experience on how to install and maintain a complete Belden IBDN Structured Cabling System.

What Will Be Covered:

- Belden Company Overview
- Structured Cabling History
- Standards Overview
- Belden IBDN Systems and products:
  - –GigaFlex Cable: 1200, 2400, 4800LX,
  - –Bonded-Pair Cable: DataTwist 350, MediaTwist, DataTwist 600e,
  - –GigaBIX and Fiber*Express* Solutions
- Certification Overview
- Installation Preambles for Belden IBDN Systems
- Work Area Products Installation:
  - –GigaFlex Modules, Face Plates and Workstation Outlets
- BIX and GigaBIX Solutions:
  - –IDC System Installation
  - –Wall-Mount, Rack Mount Patch Panel System Installation
- Modular Jack and Patch Cord System
- High Density PS5E/PS6+ Patch Panel System
- PS5E Patch Box and Multi-user Box
- PS5E DVO Outlets, MDVO Adapters and EZ-MDVO Modules
- Optical Fiber Overview
  - –Belden IBDN Fiber*Express* Systems and products
  - –Products Overview, Fiber Termination, (1U/2U), (3U) and (4U) Patch Panel Installation
- OPTIMAX Field Installable Connector (ST, SC, LC)
- Breakout Kit Installation
- 10GX Solution Overview
- Reference Materials
- 75% In-Class Exercises

Prerequisite: *None*

Written Exam: *No*

BICSI CECs: *RCDD (14), INS, Level 2/Technician (14)*

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Belden IBDN Training
Course Descriptions

Belden IBDN 726
Belden IBDN Copper Products
(1 day)

Who Should Attend:

Structured Cabling Installers

Course Benefits:

Gain the ability to install copper structured cabling systems.

What Will be Covered:

- Belden Company Overview
- Belden IBDN Systems and products:
  - –GigaFlex Cable: 1200, 2400, 4800LX,
  - –Bonded-Pair Cable: DataTwist 350, MediaTwist, DataTwist 600e,
  - –GigaBIX
- Installation Preambles for Belden IBDN Systems
- Work Area Products Installation:
  - –GigaFlex Modules, Face Plates and Workstation Outlets
- BIX and GigaBIX Solutions:
  - –IDC System Installation
  - –Wall-Mount, Rack Mount Patch Panel System Installation
- Modular Jack and Patch Cord System
- High Density PS5E/PS6+ Patch Panel System
- PS5E Patch Box and Multi-user Box
- PS5E DVO Outlets, MDVO Adapters and EZ-MDVO Modules
- 10GX Solution Overview
- Reference Materials
- 75% In-Class Exercises

Prerequisites: *None*

Written Exam: *No*

BICSI CECs: *RCDD (7), INS, Level 2/Technician (7)*

Belden IBDN 746
Belden IBDN Fiber Product
(1 day)

Who Should Attend:

Structured Cabling Installers

Course Benefits:

Gain an understanding of the principles behind Optical Fiber cabling media.

Gain the ability to install Optical Fiber components and solutions.

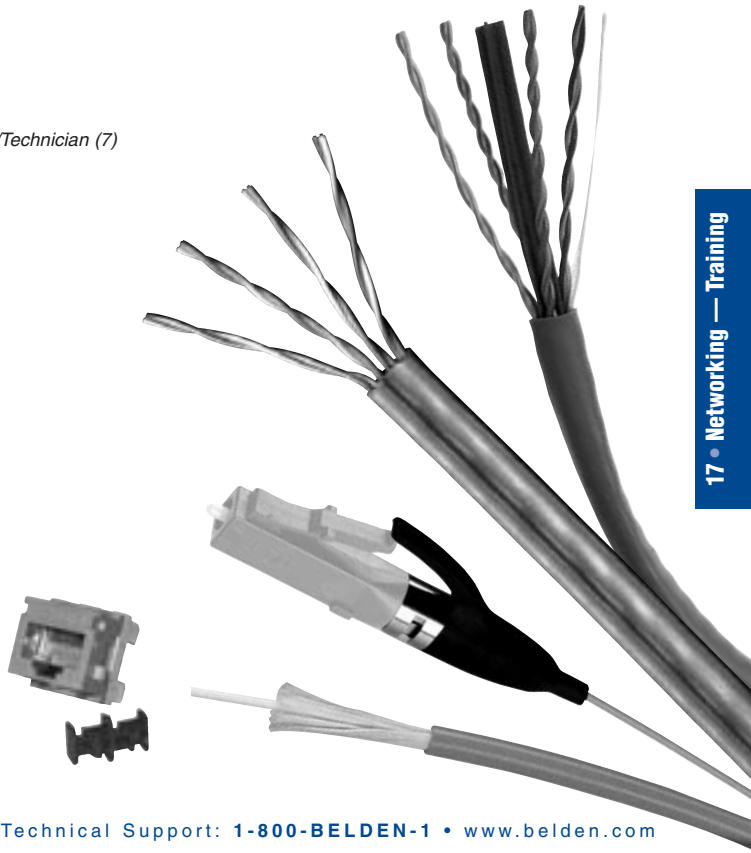
What Will Be Covered:

- Belden Company Overview
- Optical Fiber Overview
  - –Belden IBDN Fiber*Express* System and products
  - –Products Overview, Fiber Termination, (1U/2U), (3U) and (4U) Patch Panel Installation
- OPTIMAX Field Installable Connector (ST, SC, LC)
- Breakout Kit Installation
- Reference Materials
- 75% In-Class Exercises

Prerequisite: *None*

Written Exam: *No*

BICSI CECs: *RCDD (7), INS, Level 2/Technician (7)*



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Belden IBDN Training

Course Descriptions

Belden IBDN 727

Belden IBDN End-to-End Installation and Testing — Copper Media

(2 days)

Who Should Attend:

Belden Channel Partners or Employees

Contractors, technicians, supervisors, engineers and designers

Course Benefits:

Learn detailed installation methods of key copper Belden IBDN System components.

Learn appropriate methods and procedures of testing copper Belden IBDN Systems.

What Will Be Covered:

- Review Belden IBDN Systems and key copper components
- Basic balanced twisted-pair transmission and performance theories
- Installation practice reviews
- Installation and testing of end-to-end systems
- In detail, installation methods of:
  - –Copper Belden IBDN Systems components,

  Belden IBDN 1200, 2400 and 4800LX Systems including:
  - –GigaFlex Cable: 1200, 2400 and 4800LX,
  - –Bonded-Pair Cable: DataTwist 350, MediaTwist, DataTwist 600e
- Learn testing methods of Belden IBDN Systems and how to troubleshoot typical problems
- Understand the correlation between:
  - –Basic theories of end-to-end system transmission,
  - –Component and system installation practices,
  - –Test results and system performances
- 10GX Solution Overview
- 90% In-Class Exercises

Prerequisite: *None*

Written Exam: *Yes*

BICSI CECs: *RCDD (14), INS, Level 2/Technician (14)*

Belden IBDN 747

Belden IBDN End-to-End Installation and Testing — Optical Fiber Media

(2 days)

Who Should Attend:

Belden Channel Partners or Employees

Contractors, technicians, supervisors, engineers and designers

Course Benefits:

Learn detailed installation methods of key Belden IBDN Fiber*Express* System components.

Learn appropriate methods and procedures of testing Belden IBDN Fiber*Express* Systems.

What Will Be Covered:

- Review Belden IBDN Fiber*Express* Systems and key fiber components
- Basic optical fiber transmission and performance theories
- Installation practice reviews
- Installation and testing of end-to-end systems
- In detail, installation methods of:
  - –Belden IBDN Fiber*Express* System components,
  - –Belden IBDN Fiber*Express* Systems including: Multimode (FX300, FX600 and FX2000) and Single-mode systems
- Learn testing methods of Belden IBDN Systems and how to troubleshoot typical problems
- Understand the correlation between:
  - –Basic theories of end-to-end system transmission,
  - –Component and system installation practices,
  - –Test results and system performances
- 90% In-Class Exercises

Prerequisite: *None*

Written Exam: *Yes*

BICSI CECs: *RCDD (14), INS, Level 2/Technician (14)*



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18 Industrial Automation and Control Cables



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ControlNet is a ControlNet International trademark. • DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.
Interbus is a Phoenix Contact trademarks. • Seriplex is a Square D/Schneider AEG registered trademark.

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Belden IndustrialTuff® Cables
Introduction

Tough Cables for Tough Environments

Today, more than ever, manufacturing productivity depends upon seamless data communication and automation systems. And both depend upon high-performance cabling solutions.

Depend on Belden

Belden has developed the world's most comprehensive line of industrial cabling solutions for applications like yours: whether you are networking your factory floor or your process equipment and devices to their controllers…and on to the control room, or relaying data between the control room, the engineering department, and remote manufacturing sites — or, all of the above. From your petrochemical, automotive manufacturing, pharmaceutical, power generation, pulp and paper, metals, food and beverage, or general manufacturing plant to your corporate headquarters — and everywhere in between — Belden has your cabling solution.

Most importantly you can have the peace-of-mind that is inherent with the use of Belden products since all Belden cables are manufactured in ISO 9001:2000 certified facilities to the industry's highest standards of quality, utilizing the most advanced equipment, systems, controls and processes available.

Belden cables give you the performance you need day after dependable day.

Innovative Technology

Bonded-Pairs

Many DataTuff® Industrial Ethernet cables feature Belden's patented bonded-pair technology. Bonded-pairs provide *Installable Performance®* — superior electrical performance even after the stresses of installation. Bonded-pairs exhibit the most robust and reliable electrical performance in the industry.

Shielding

The evolution of technology maintains steady demand for sophisticated cable shielding. Belden meets that demand with innovative shielding and shield effectiveness testing methods to supply you with high quality, dependable cable.

Belden's exclusive patented Beldfoil® design, with its aluminum/polyester foil, was the first shield to offer 100 percent cable protection against radiated emission and ingress at audio and radio frequencies.

Armoring

Belden's innovative armoring technology delivers maximum physical protection in harsh environments. Additional benefits include reduced cost of conduit, easier installation and re-routing, plus additional shielding.

Belden has the capability to protect data, electronic, instrumentation and control cables with interlocking steel or aluminum armor as well as continuous corrugated aluminum armor. Smooth or corrugated protective metal tapes are also available.

Insulation and Jacket

Belden formulates many of its own insulations and jacket compounds. As a result, they provide superior performance under a variety of hostile environmental conditions. See "Technical Information" at the back of this section for further details.

Intrinsically Safe Wiring

In accordance with NEC Article 504, intrinsically safe cables are colored blue for easy identification. Belden offers several industrial cables in intrinsically safe blue to meet your requirements for intrinsically safe wiring. Contact the NEC and/or your local inspector for specific guidelines.

Custom Capabilities

Most of our Industrial cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find an Industrial cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

To Specify Part Number:

1	2	3456
Overall Jacket Type	Armor Type	Core Trade Number

Overall Jacket Type

Code	Material
1	PVC
3	CPE
4	TPE
5	HDPE
6	Oil Res II
7	Haloarrest®

Armor Type

Code	Material
2	Aluminum Interlock
3	Steel Interlock
8	Continuous Corrugated Aluminum

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PLC/DCS Cable Cross Reference Guide

PLC/DCS Manufacturer	System Name	Belden Part Number	
ABB/Bailey Controls	FOUNDATION Fieldbus	See Protocol listings on page 8.6	
	Industrial IT 800 X A	9880	Network Trunk Cable
	Infinet	9880	Network Trunk Cable
		9463	Blue Hose® (Standard)
	Masterpiece 200	9880	Network Trunk Cable
		9907	Thin Network Trunk Cable
	MICRO-DCI	3105A	1-Pair, RS-485
	MICROLINK	9860	Twinax, 16 AWG, 124 Ohm
	Modcell	3105A	1-Pair, RS-485
	Profibus DP & PA	See Protocol listings on page 8.6	
Allen-Bradley/ Rockwell Automation	ControlNet™	See Protocol listings on page 8.6	
	DeviceNet™	See Protocol listings on page 8.6	
	DH, DH+, Remote I/O	9463	Blue Hose (Standard)
		9463F	Flexible Version (9463)
		129463	Aluminum Armor (9463)
		139463	Steel Armor (9463)
		189463	Continuous Armor (9463)
		YR28826	Dual Version (9463)
		YC39151	Dual Armored (9463)
		9463DB	Direct Burial (9463)
		YR29565	Various Color Jackets (9463)
		3072F	600V TC Rated (9463)
		YR41104	Low Smoke, Halogen Free
		YR28764	Super Thick (PLTC)
		89463	FEP 200°C, Plenum
	DH-485	3074F	600V Tray Cable
		3106A	1.5-Pair, RS-485 (PLTC)
		9842	2-Pair, RS-485
		YM39500	Flexible Version (3106A)
	Industrial Ethernet	See Protocol listings on page 8.6	
	Longline Communications	8723	Interface Cable
		88723	Plenum Version
Cutler-Hammer/ Westinghouse	IMPACC System	YR29090	Proprietary Trunk Cable
	I/Q System	9463	Blue Hose (Standard)
Emerson Process Management (Fisher/ Rosemont Systems) — Delta V	DeviceNet	See Protocol listings on page 8.6	
	FOUNDATION Fieldbus (Type SP50 ISA/IEC)	See Protocol listings on page 8.6	
	HART	See Protocol listings on page 8.6	
	Industrial Ethernet	See Protocol listings on page 8.6	
	Modbus	See Protocol listings on page 8.6	
	Profibus DP	See Protocol listings on page 8.6	
	Provox Plus	3091A	RG-11 Quad Shield PVC
		3131A	RG-6 Quad Shield PVC
	RS-485	See Protocol listings on page 8.6	
GE Fanuc — I/O Bus	DeviceNet	See Protocol listings on page 8.6	
	Genius 9030, 9070 PAC System	YR29841	PLTC Version
		9182	Communications Bus
		89182	Plenum Version
	Interbus®-S	See Protocol listings on page 8.6	
	Modbus®	See Protocol listings on page 8.6	
	Profibus	See Protocol listings on page 8.6	

PLC/DCS Manufacturer	System Name	Belden Part Number	
GE Fanuc — Sensor Device Networks	DeviceNet	See Protocol listings on page 8.6	
	SDS	See Protocol listings on page 8.6	
Honeywell	Access 4000 System	9248	RG-6 PVC
	FOUNDATION Fieldbus (Type SP50 ISA/IEC)	See Protocol listings on page 8.6	
	IPC 620 System I/O	9271	Twinax, 25 AWG, 124 Ohm
	IPC 620 System	9729	Up to 4,000 ft.
	Serial Interface	9182	Up to 10,000 ft.
		89182	Plenum
	Series C	RS-485	Foundation Fieldbus Industrial Ethernet
	3000 UCN & LCN	3131A	RG-6 Quad Shield PVC
		3094A	RG-11 Quad Shield PVC
Honeywell Microswitch Division	Smart Distributed System	3086A	Mini
		3087A	Micro
Invensys/ Foxboro	FOUNDATION Fieldbus (Type SP50 ISA/IEC)	See Protocol listings on page 8.6	
	I/A Series Carrier Band	8233	Small Trunk
		3095A	Plenum
		9290	Drop Cable
	I/A Series Fieldbus	9207	Twinax
		89207	200°C, Plenum
		3073F	600V Tray Cable
	I/A Series Node Bus	9880	Trunk Cable
		89880	Plenum Version
	Industrial Ethernet	See Protocol listings on page 8.6	
Limitorque	DCC100	3105A	Actuator Bus Cable, 1-Pair, RS-485
Matsushita	FP Series C-NET	9207	Twinax, 20 AWG, Stranded, 100 Ohm
		9860	Twinax, 16 AWG, Solid, 124 Ohm
	FP Series MEWNET-F	9207	Twinax, 20 AWG, Stranded, 100 Ohm
		9860	Twinax, 16 AWG, Solid, 124 Ohm
	FP Series MEWNET-H	9248	RG-6, 75 Ohm, 18 AWG
	FP Series MEWNET-TR	9207	Twinax, 20 AWG, Stranded, 100 Ohm
		9860	Twinax, 16 AWG, Solid, 124 Ohm
	FP Series MEWNET-W	9207	Twinax, 20 AWG, Stranded, 100 Ohm
		9806	4-Pair, RS-232, RS-422
	FP Series MEWNET-W2	9207	Twinax, 20 AWG, Stranded, 100 Ohm
		9860	Twinax, 16 AWG, Solid, 124 Ohm
	FP Series TRNET	9207	Twinax, 20 AWG, Stranded, 100 Ohm
		9860	Twinax, 16 AWG, Solid, 124 Ohm

FEP = Fluorinated Ethylene-propylene

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PLC/DCS Cable Cross Reference Guide *(continued)*

PLC/DCS Manufacturer	System Name	Belden Part Number	
Mitsubishi Electric Automation	**CC-Link**	See Protocol listings on page 8.6	
	DeviceNet	See Protocol listings on page 8.6	
	Melsecnet II (10/10H)	**1505A**	Precision RG-59/U Coax
		1505F	High-Flex 1505A
		1506A	Plenum Precision RG-59/U, Outdoor, Direct Burial
		8241	Standard RG-59/U Coax
		8241F	High-Flex 8241F
	Modbus	See Protocol listings on page 8.6	
	Profibus DP	See Protocol listings on page 8.6	
	Serial Communications	**8777**	Control and Instrumentation Interconnect Cable
Modicon/ Schneider AEG	**Industrial Ethernet**	See Protocol listings on page 8.6	
	Modbus	**8777**	Modem Drop Cable, 22 AWG, 3-Pair
		128777	Aluminum Armor (8777)
		138777	Steel Armor (8777)
		88777	FEP 200°C, Plenum
	Modbus II	**3092A**	RG-6 Quad Shield PVC
		3132A	RG-6 Quad Shield, 150°C, Plenum
		3092F	RG-6 Quad Shield PVC, Flexible Version
		123092A	Aluminum Armor (3092A)
		133092A	Steel Armor (3092A)
	Modbus Plus	**YM29560**	24 AWG, 1-Pair, RS-485
		YC39000	Aluminum Armor (YM29560)
		YC39222	Steel Armor (YM29560)
		YQ29258	24 AWG, 1-Pair, 150°C, Plenum
	Remote I/O	**3092A**	RG-6 Quad Shield PVC
		3092F	RG-6 Quad Shield PVC, Flexible Version
		123092A	Aluminum Armor (3092A)
		133092A	Steel Armor (3092A)
		123092F	Aluminum Armor, RG-6 Quad Shield PVC
		3132A	RG-6 Quad Shield, 150°C, Plenum
		3094A	RG-11 Quad Shield PVC
		123094A	Aluminum Armor (3094A)
		133094A	Steel Armor (3094A)
		3095A	RG-11 Quad Shield, 150°C, Plenum
Omron	**ComboBus/D (DeviceNet™)**	See DeviceNet Protocol listings on page 8.6	
	ComboBus/S	**9409**	18 AWG, 1-Pair, 300V PLTC Control
		9318	18 AWG, 1-Pair, 300V PLTC Control, Shielded
		3073	600V Tray Cable, Twinax
		89740	18 AWG, 1-Pair, 300V, Control

PLC/DCS Manufacturer	System Name	Belden Part Number	
Omron *(continued)*	**Controller Link**	**9207**	Twinax
		89207	Twinax, 200°C, Plenum
		9815	Twinax, 100 Ohm, Direct Burial
		3073F	600V Tray Cable, Twinax
	SYSBUS-2	**3073F**	600V Tray Cable, Twinax
	SYSMAC BUS	**9841**	22 AWG, 1-Pair, RS-485
		3105A	22 AWG, 1-Pair, RS-485
	SYSMAC LINK	**9231**	RG-59U Coax
Phoenix Contact	**DeviceNet**	See Protocol listings on page 8.6	
	Industrial Ethernet	See Protocol listings on page 8.6	
	Interbus®-S	See Protocol listings on page 8.6	
	Profibus DP FMS & PA	See Protocol listings on page 8.6	
Reliance/A-B	**Auto Max Distributed Power**	**M9B021**	2-Fiber Breakout
		I100255	2-Fiber Loose Tube PVC
		I100266	2-Fiber Loose Tube CPE
	R-Net	**9259**	RG-59 PVC
		89259	RG-59, 200°C, Plenum
Rotork	**Pakscan II E RS-485**	**3105A**	22 AWG, 1-Pair, RS-485
Siemens/ Moore	**FMC** (Field Mountable Controller)	**3105A**	1-Pair, RS-485
		3106A	1.5-Pair, RS-485
		3107A	2-Pair, RS-485
		3108A	3-Pair, RS-485
		3109A	4-Pair, RS-485
	FOUNDATION Fieldbus (Type SP50 ISA/IEC)	See Protocol listings on page 8.6	
	Hiway	**9860**	Network Trunk Cable
	Industrial Ethernet	See Protocol listings on page 8.6	
	MODULNET	**3094A**	RG-11 Quad Shield PVC
		3131A	RG-6 Quad Shield PVC
	Profibus DP & FMS (Purple)	See Protocol listings on page 8.6	
	Profibus PA (Blue)	See Protocol listings on page 8.6	
	SINEC Series H1	**9907**	Thin Network Trunk Cable
		9880	Network Trunk Cable
	SINEC Series H2B	**3131A**	RG-6 Quad Shield
		3094A	RG-11 Quad Shield
	SINEC Series L1	**3107A**	2-Pair, RS-485
	SINEC Series L2	**3079A**	300V Twinax
	Thicknet Ethernet Trunk	**9880**	Network Trunk Cable
		129880	Aluminum Interlocked Armor Trunk
		139880	Steel Interlocked Armor Trunk
	Thinnet Ethernet Trunk	**9907**	Thin Network Trunk Cable

FEP = Fluorinated Ethylene-propylene

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PLC/DCS Cable Cross Reference Guide *(continued)*

PLC/DCS Manufacturer	System Name	Belden Part Number
Smar	FOUNDATION Fieldbus (Type SP50 ISA/IEC)	See Protocol listings on page 8.6
	Industrial Ethernet	See Protocol listings on page 8.6
	Profibus DP FMS & PA	See Protocol listings on page 8.6
	RS-485	See Protocol listings on page 8.6
Square D/ Schneider AEG	FIP/Fieldbus	3079A 22 AWG, 1-Pair, Shielded
		123079A Aluminum Armor (3079A)
	Industrial Ethernet	See Protocol listings on page 8.6
	Model 50, RS-422 Cable	8760 18 AWG, 1-Pair, Shielded
		128760 Aluminum Armor (8760)
	Passport I/O – I/O Net	3105A 22 AWG, 1-Pair, RS-485
		123105A Aluminum Armor (3105A)
		3106A 22 AWG, 1.5-Pair, RS-485
		123106A Aluminum Armor (3106A)
	Power Logic	9841 24 AWG, 1-Pair, RS-485
		9842 24 AWG, 2-Pair, RS-485
Square D/ Schneider AEG	Seriplex®	3124A CBL-1822-P20
		3125A CBL-1622-P16
		3126A CBL-162212-P16
		123124A Aluminum Armor (3124A)
		123125A Aluminum Armor (3125A)
		123126A Aluminum Armor (3126A)
		9463 Blue Hose® (Standard)
		9463F Flexible Version (9463)
		129463 Aluminum Armor (9463)
		139463 Steel Armor (9463)
		189463 Continuous Armor (9463)
		YR28826 Dual Version (9463)
		9463DB Direct Burial (9463)
		YR29565 Various Color Jackets 9463)
	SY/Net Network Trunk Cable	3072F 600V TC Rated (9463)
		YR41194 Low-Smoke, Halogen-Free
		YR28764 Super Thick (PLTC)
		89463 FEP 200°C, Plenum
	SY/Net TNIM Cable	9272 20 AWG, 1-Pair, Shielded
		89272 FEP 200°C, Plenum

PLC/DCS Manufacturer	System Name	Belden Part Number
Yokogawa — CENTUM	DeviceNet™	See Protocol listings on page 8.6
	FOUNDATION Fieldbus (Type SP50 ISA/IEC)	See Protocol listings on page 8.6
	HART	See Protocol listings on page 8.6
	Industrial Ethernet	See Protocol listings on page 8.6
	Profibus	See Protocol listings on page 8.6
	RS-485	See Protocol listings on page 8.6
Yokogawa — FA-M3	DeviceNet	See Protocol listings on page 8.6
	Industrial Ethernet	See Protocol listings on page 8.6
	Modbus	See Protocol listings on page 8.6
	Profibus	See Protocol listings on page 8.6
	RS-485	See Protocol listings on page 8.6
Yokogawa — STARDOM	DeviceNet	See Protocol listings on page 8.6
	FOUNDATION Fieldbus (Type SP50 ISA/IEC)	See Protocol listings on page 8.6
	HART	See Protocol listings on page 8.6
	Industrial Ethernet	See Protocol listings on page 8.6
	Profibus	See Protocol listings on page 8.6
	RS-485	See Protocol listings on page 8.6
Westinghouse	WDPF	9292 RG-11 PVC

FEP = Fluorinated Ethylene-propylene

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Industrial Communications Protocol Cross Reference

System Name	Belden Part Number	
Can Open/HART/ RS-485	**3105A**	1-Pair, RS-485 (PLTC)
	3106A	1.5-Pair, RS-485 (PLTC)
	3107A	2-Pair, RS-485 (PLTC)
CC-Link	**YR47198**	20 AWG/3c, Foil + Braid Shield
	YR47205	20 AWG/3c Shielded + 18 AWG/2c Power
ControlNet™	**3092A**	RG-6 PVC Quad Shield
	3092F	RG-6 PVC Quad Shield, Flex Version, Aluminum Braid
	YR28890	RG-6 PVC Quad Shield, Flex Version, Copper Braid
	3093A	RG-6 FEP Quad Shield, Plenum
	123092A	Aluminum Armor (3092A)
	133092A	Steel Armor (3092A)
	183092A	Continuous Armor (3092A)
DataHighway (DH) & DataHighway Plus (DH+) Remote I/O	**9463**	20 AWG Twinax, Blue Hose
	3072F	600V, TC Blue Hose
	9463DB	Direct Burial Blue Hose
	9463F	High-Flex, Blue Hose
	89463	High-Temp, Plenum Blue Hose
	129463	Aluminum Armor (9463)
	139463	Steel Armor (9463)
	189463	Continuous Armor (9463)
	YR28826	Dual Blue Hose
	YC39151	Dual Armored Blue Hose
	YR28764	Thick Wall PLTC Blue Hose
	YR29565	Colored Blue Hose
	YR41104	Low-Smoke, Zero-Halogen Blue Hose
DeviceNet™	**3082A**	PVC (Thick)
	3082F	High-Flex (Thick)
	3082K	CL2 (Flat)
	3082KP	Auxiliary Power (Flat)
	3083A	CPE (Thick)
	3084A	PVC (Thin)
	3084F	High-Flex (Thin)
	3085A	CPE (Thin)
	7895A	CL2 PVC (Cable III Mid)
	7896A	CL1 PVC (Type V Trunk Cable)
	7897A	CL1 PVC (Thick)
	7900A	CL1 Unshielded (Drop Cable IV)
FOUNDATION Fieldbus (Type SP50 ISA/IEC)	**3076F**	Type A, H1 1900m (31.25K)
	3077F	Type B, H1 1200m (31.25K)
	HSE	Copper & Fiber (see *Cables for Industrial Ethernet*, pg. 18.6)
Hart/RS-485/ Can Open	**3105A**	1-Pair, RS-485 (PLTC)
	3106A	1.5-Pair, RS-485 (PLTC)
	3107A	2-Pair, RS-485 (PLTC)
Industrial Ethernet	**7932A**	Cat 5e, 2-Pair, Bonded
	7933A	Cat 5e, 2-Pair, Bonded, Shielded
	7918A	Cat 5e, 4-Pair
	7924A	Cat 5e, 4-Pair, Bonded, Flexible
	7930A	Cat 5e, 4-Pair, Flexible
	7922A	Cat 5e, 4-Pair, Bonded, PLTC
	7934A	Cat 5e, 4-Pair, Bonded, Burial

System Name	Belden Part Number	
Industrial Ethernet *(continued)*	**11700A**	Cat 5e, 4-Pair, Bonded, Upjacketed
	11700A2	Cat 5e, 4-Pair, Bonded, Upjacketed, Oil Res II
	121700A	Cat 5e, 4-Pair, Bonded, Armored
	7919A	Cat 5e, 4-Pair, Shielded
	7921A	Cat 5e, 4-Pair, Bonded, Shielded (Foil + Braid)
	7927A	Cat 6, 4-Pair, Bonded
	7931A	Cat 6, 4-Pair, Bonded, Gas Res, High + Low Temperature
	11872A	Cat 6, 4-Pair, Bonded, Upjacketed
	121872A	Cat 6, 4-Pair, Bonded, Armored
Interbus®-S	**3119A**	18 AWG/3c, 24 AWG/3-Pair, Composite
	3120A	24 AWG/3-Pair
IronWorks®	**8471**	16 AWG, 1-Pair, UL AWM 2598
	8917	16 AWG, 1-Cond, UL AWM 1015
	85102	16 AWG, 2-Cond, VW1, Plenum
Modbus	**8777**	22 AWG, 3-Pair, Modem Drop Cable
	128777	Aluminum Armor (8777)
	138777	Steel Armor (8777)
	88777	FEP 200°C, Plenum (8777)
Profibus DP & FMS (Purple)	**3079A**	22 AWG 300V Twinax
	3079E	22 AWG 300V Twinax, Flex Version
Profibus PA (Blue)	**3076F**	18 AWG, 2-Conductors, Type A
RS-485/HART/ Can Open	**9841**	1-Pair
	82841	1-Pair, Plenum
	89841	1-Pair, Plenum, High-Temperature
	9842	2-Pair
	82842	2-Pair, Plenum
	9843	3-Pair
	9844	4-Pair
	7200A	1-Pair, RS-485, Hi-Flex
	7201A	2-Pair, RS-485, Hi-Flex
	7202A	3-Pair, RS-485, Hi-Flex
	7203A	4-Pair, RS-485, Hi-Flex
	7206A	1-Pair, RS-485, Hi-Flex
	3105A	1-Pair, RS-485 (PLTC)
	3106A	1.5-Pair, RS-485 (PLTC)
	3107A	2-Pair, RS-485 (PLTC)
	3108A	3 Pair, RS-485 (PLTC)
	3109A	4 Pair, RS-485 (PLTC)
Seriplex®	**3124A**	1-Pair 18 AWG, 1-Pair 22 AWG
	3125A	1-Pair 16 AWG, 1-Pair 22 AWG
	3126A	1-Pair 16 AWG, 1-Pair 22 AWG, 1-Pair 12 AWG
	123124A	Aluminum Armor (3124A)
	123125A	Aluminum Armor (3125A)
	123126A	Aluminum Armor (3126A)
Smart Distributed System (SDS)	**3086A**	1-Pair 16 AWG, 1-Pair 20 AWG
	3087A	2-Pairs 22 AWG

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Industrial Data Solutions® — Industrial Ethernet

DataTuff® Twisted Pair and TrayOptic® Fiber Optic Cables Overview

The reliability of your industrial Ethernet network depends on the cable infrastructure. Data transmission errors can lead to interruptions in critical control functions resulting in lost production time and even safety issues. Belden's family of industrial Ethernet cables is designed to withstand the rigors of industrial environments. Whether it's exposure to oil and sunlight, temperature variation, abrasion and crushing, or the presence of electromagnetic interference (EMI) or radio frequency interference (RFI), turn to Belden for the solution.

Belden offers an extensive line of high performance cables in both copper constructions with DataTuff cables as well as fiber optic designs with TrayOptic cables.

Performance Assurance from Blue Hose® to Industrial Ethernet

To assist you in achieving optimum network performance, Belden has built quality and reliability into each cable it manufactures. Decades of leadership and experience in supplying reliable high-end cable solutions, such as Blue Hose®, to industrial networks and control systems are combined to give you industrial Ethernet cables that perform to maximum network capability.

Our dedication to quality manufacturing practices and processes assures consistent products of uncompromising quality.

Installable Performance® with Patented Bonded-Pair Technology

Belden's Bonded-Pair versions of DataTuff cables are unique in the industry to give you an Installable Performance advantage. This patented design yields superior electrical performance even after the effects and stresses of pulling, twisting and bending during typical installations.

This performance advantage is achieved by bonding the individual insulated conductors along their longitudinal axes, resulting in uniform conductor-to-conductor spacing and the elimination of gaps between conductors that can occur during installation. This is a critical construction feature because non-uniform conductor spacing and gaps change the physical characteristics of the cable such that the electrical performance of the cable suffers. Only Bonded-Pair cables deliver the electrical integrity you demand.

TrayOptic Cables

Belden® TrayOptic cables are a line of indoor/outdoor fiber optic cables designed to meet the demanding requirements of industrial applications. When the installation demands the combination of sophisticated fiber optic technology and rugged durability, turn to Belden.

DataTuff® Industrial Ethernet Cable Selection Guide

	Part No.	No. of Pairs	Shielding		Conductor		Installation		Environmental Issues						Industrial Grade Jacket		
			Unshielded	Shielded *	Solid	Stranded **	Installation Stress Resistance†	Pull Tension	Oil Resistance	UV Sunlight Resistance	CMX/ Outdoor	Under-ground (burial)	Gasoline Resistance	Hi/Lo Temp	Heavy	Upjacket	Armored
	Category 5e Cable																
new	**7932A** EtherNet/IP	2	●		●		●	20	●	●					●		
new	**7933A** EtherNet/IP	2		●	●		●	20	●	●					●		
	7923A EtherNet/IP	4	●		●		●	40	●	●	●				●		
	7918A	4	●		●			35	●	●	●				●		
	7924A	4	●			●	●	40	●	●	●				●		
new	**7930A**	4	●			●		25	●	●	●				●		
new	**7922A** PLTC	4	●		●		●	40	●	●	●				●		
new	**7934A** EtherNet/IP	4	●		●		●	40		●		●			●		
	7928A EtherNet/IP	4	●		●		●	40	●	●			●	●	●		
	11700A EtherNet/IP	4	●		●		●	40	●	●	●					●	
new	**11700A2** Oil Res I&II	4	●		●		●	40	●	●						●	
	121700A	4	●		●		●	40	●	●							●
new	**121700R**	4	●		●		●	40	●	●							●
	7929A	4		●	●		●	35	●	●	●				●		
	7919A	4		●	●			25	●	●	●				●		
	7921A EtherNet/IP	4		●	●		●	75	●	●	●				●		
	Category 6 Cable																
	7927A	4	●		●		●	45	●	●					●		
	7931A	4	●		●		●	40	●	●			●	●	●		
	11872A	4	●		●		●	45								●	
	121872A	4	●		●		●	45	●	●							●

*Shielded products are recommended for high-noise environments. **Stranded products are recommended where more flexibility is needed.
†Products with Bonded-Pair technology provide Installable Performance® advantages — refer to Belden's Bonded-Pair Cable Bulletin #BP02

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Industrial Data Solutions® — Industrial Ethernet

Category 5e DataTuff® Twisted Pair Cables, 2-Pair and 4-Pair Heavy-Duty Sunlight and Oil-Resistant Jackets

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
Enhanced Cat 5e • 24 AWG Bonded-Pairs Solid BC Conductors • Rip Cord • See Color Codes below																
Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black, Red or Teal)																
EtherNet/IP Compliant	7932A new	NEC: CMR CEC: CMR FT4	2	1000 2000 ▲	304.8 609.6	19.0 38.0	8.61 17.24	.207	5.26	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.6 25.4 26.0 26.0 25.5 25.0 23.5 22.5 19.0 19.0 18.0 17.0
Rip Cord																
▲2000 ft. put-up available in Black only. • M-12 or RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126																
EtherNet/IP Compliant	7923A	NEC: CMR, CMX-Outdoor CEC: CMR FT4	4	1000 2000 ▲	304.8 609.6	28.0 54.0	12.7 24.5	.230	5.84	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.6 25.4 26.0 26.0 25.5 25.0 23.5 22.5 19.0 19.0 18.0 17.0
Rip Cord																
▲2000 ft. put-up available in Black only. • RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals Cable passes -40°C Cold Bend per UL1581• Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126 • P-07-KA060003-MSHA*																
Polyolefin Insulation • Waterblocked Sunlight- and Oil-resistant Black Polyethylene Jacket																
EtherNet/IP Compliant **Halogen-Free Burial**	7934A new	—	4	1000	304.8	25.0	11.34	.230	5.84	1 4 8 10 16 20 25 31.25 62.5 100 155 200	2.0 4.1 5.8 6.5 8.2 9.3 10.4 11.7 17.0 22.0 28.1 32.0	62.3 53.3 48.8 47.3 44.3 42.8 41.3 39.9 35.4 32.3 29.5 27.8	60.0 49.0 43.0 41.0 36.0 33.5 30.9 28.0 19.0 11.0 1.4 1.0	60.8 48.7 42.7 40.8 36.7 34.7 32.8 30.9 24.8 20.8 16.9 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25 100±25	20.0 23.6 25.4 26.0 26.0 26.0 25.5 25.0 23.5 22.5 15.8 15.0
RJ-45 Compatible • Jacket sequentially marked at 3 ft. intervals Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126 • Waterblocked per Telcordia, IEC and ICEA																
Plenum • FEP Insulation • Sunlight-, Oil- and Gas-resistant Black FEP Jacket																
EtherNet/IP Compliant **High & Low Temp Oil Res I & II Gas Res**	7928A	NEC: Limited Combustible FHC 25/50 CMP CEC: CMP FT6	4	1000	304.8	24.0	10.9	.187	4.75	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 46.1 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.6 25.4 26.0 26.0 25.5 25.0 23.5 22.5 19.0 19.0 18.0 17.0
RJ-45 Compatible Cable passes -70°C Cold Bend per UL1581 • Installation Temperature: -55°C to +150°C • Operating Temperature: -70°C to +150°C** Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126																
Polyolefin Insulation • PVC Inner Jacket • .035″ Industrial Grade PVC Outer Jacket (Black, Gray, Red, Teal or Blue)																
EtherNet/IP Compliant **Upjacketed**	11700A	NEC: CMR, CMX-Outdoor CEC: CMR FT4	4	1000 3000 †	304.8 914.4	39.0 117.0	17.7 53.2	.285 Nominal Core OD: .200	7.24 5.08	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 43.9 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.6 25.4 26.0 26.0 25.5 25.0 23.5 22.5 19.0 19.0 18.0 17.0
Rip Cords																
†3000 ft. put-up available in Black only. • Outer jacket is sunlight- and oil-resistant. • Jacket sequentially marked at 2 ft. intervals Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** RJ-45 Compatible • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126 • P-07-KA060005-MSHA*																
Oil Res I & II Upjacketed	11700A2 new	NEC: CMR CEC: CMR FT4	4	1000 †† 2000 ††	304.8 609.6	42.0 86.0	19.1 39.1	.285 Nominal Core OD: .200	7.24 5.08	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 43.9 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0
Rip Cord																
††1000 ft. put-up available in Black or Blue only, 2000 ft. put-up in Black only. • RJ-45 Compatible • Outer jacket is sunlight resistant. Cable passes -10°C Cold Bend per UL1581 • Installation Temperature: +5°C to +75°C • Operating Temperature: -10°C to +75°C** Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126																

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • TC = Tinned Copper

*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.
**Subject to length de-rating.

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DataTuff Color Codes: **Pair 1** = White/Blue Stripe & Blue, **Pair 2** = White/Orange Stripe & Orange, **Pair 3** = White/Green Stripe & Green, **Pair 4** = White/Brown Stripe & Brown
For two pair products: use color codes for Pairs 2 & 3

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Industrial Data Solutions® — Industrial Ethernet

Category 5e DataTuff® Twisted Pair Cables, 2-Pair and 4-Pair Heavy-Duty Sunlight and Oil-Resistant Jackets

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
Enhanced Cat 5e • 22 AWG Bonded-Pairs Solid Bare Copper Conductors • Rip Cord • See Color Code Chart (below)																
Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant Black PVC Jacket																
PLTC	**7922A** new	NEC: PLTC, CMR, CMX-Outdoor CEC: CMR FT4	4	1000 2000	304.8 609.6	46.3 92.5	21.0 42.0	.301	7.65	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0
Rip Cord																
Cable passes -25°C Cold Bend per UL1581 • Installation Temperature: -10°C to +75°C • Operating Temperature: -25°C to +75°C**																
Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126																
Enhanced Cat 5e • 24 AWG Bonded-Pairs Stranded (7x32) TC Conductors • See Color Code Chart (below)																
Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black, Red or Teal)																
Stranded Flexible	**7924A**	NEC: CMR, CMX-Outdoor CEC: CMR FT4	4	1000 2000 †	304.8 609.6	30.0 58.0	13.6 26.3	.242	6.15	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.4 4.8 6.8 7.7 9.7 12.4 13.9 20.2 26.0 33.2 38.4 43.7 53.2	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	62.9 51.5 45.0 42.6 37.5 31.9 29.0 18.3 9.2 — — — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±18 100±18 100±20 100±20 100±22	20.0 23.6 25.4 26.0 26.0 25.5 25.0 23.5 22.5 19.0 19.0 18.0 17.0
†2000 ft. put-up available in Black only. • RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals																
Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C**																
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151; 5,734,126 and 5,763,823																
Enhanced Cat 5e • 24 AWG Bonded-Pairs Solid BC Conductors • Overall Beldfoil® Shield (100%) • Drain Wire • See Color Codes (below)																
Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black, Red or Teal)																
EtherNet/IP Compliant **Shielded**	**7933A** new	NEC: CMR CEC: CMR FT4	2	1000 2000 ▲	304.8 609.6	32.0 64.8	14.5 29.4	.227	5.77	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.4	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40.8 36.1 28.2 18.4 10.3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.6 26.0 26.0 25.0 23.5 22.5 15.0
Drain Wire																
▲2000 ft. put-up available in Black only. • M-12 or RJ-45 Compatible • Shield is bonded to jacket inner wall for electrical stability.																
Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C**																
Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126																
Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black or Blue)																
Shielded	**7929A**	NEC: CMR, CMX-Outdoor CEC: CMR FT4	4	1000 2000 ▲	304.8 609.6	37.0 72.0	16.8 32.7	.265	6.73	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.4	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40.8 36.1 28.2 18.4 10.3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
Drain Wire																
▲2000 ft. put-up available in Black only. • RJ-45 Compatible • Shield is bonded to jacket inner wall for electrical stability.																
Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C**																
Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126 • P-07-KA060003-MSHA*																
Enhanced Cat 5e • 24 AWG Bonded-Pairs Solid BC Conductors • Overall Beldfoil (100%) + TC Braid Shield (70% Coverage) • Drain Wire◆																
Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black, Red, Blue or Teal)																
EtherNet/IP Compliant **Heavy-shielded**	**7921A**	NEC: CMR, CMX-Outdoor CEC: CMR FT4	4	1000 2000 ▲	304.8 609.6	55.0 106.0	24.9 48.1	.330	8.38	1 4 10 16 31.25 62.5 100	2.0 4.1 6.5 8.2 11.7 17.0 22.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3	60.3 49.2 40.8 36.1 28.2 18.4 10.3	60.8 48.7 40.8 36.7 30.9 24.8 20.8	100±15 100±15 100±15 100±15 100±15 100±15 100±15	20.0 23.6 26.0 26.0 25.0 23.5 22.5
Drain Wire																
▲2000 ft. put-up available in Black only. ◆24 AWG solid spiral drain wire.																
Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C**																
Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • NEMA WC-63.1 Category 5e • U.S. Patents 5,606,151 and 5,734,126																

ACR = Attenuation Crosstalk Ratio • AL = Aluminum • BC = Bare Copper • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • TC = Tinned Copper

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*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.
**Subject to length de-rating.

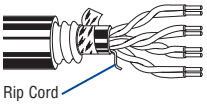
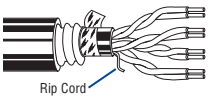
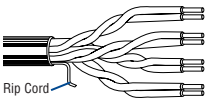
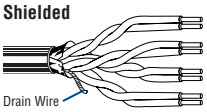
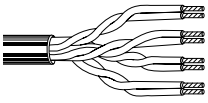
DataTuff Color Codes: **Pair 1** = White/Blue Stripe & Blue, **Pair 2** = White/Orange Stripe & Orange, **Pair 3** = White/Green Stripe & Green, **Pair 4** = White/Brown Stripe & Brown
For two pair products: use color codes for Pairs 2 & 3

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Industrial Data Solutions® — Industrial Ethernet

Category 5e DataTuff® Twisted Pair Cables, 4-Pair
Heavy-Duty Sunlight and Oil-Resistant Jackets

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
Enhanced Cat 5e • 24 AWG Bonded-Pairs Solid BC Conductors • Polyester Wrap • Rip Cord • See Color Code Chart (below)																
AL Interlocked Armor • Polyolefin Insulation • PVC Inner Jacket • .045″ Industrial Grade PVC Outer Jacket (Black or Gray)																
Interlocked AL Armor  Rip Cord	**121700A**	NEC: CM CEC: HL CMG FT4	4	1000 3000 †	304.8 914.4	159.0 459.0	72.0 210.6	.530 Nominal Core OD: .200	13.46 5.08	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0
†3000 ft. put-up available in Black only. • RJ-45 Compatible • Outer jacket is sunlight- and oil-resistant. Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** Jacket sequentially marked at 1 meter intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126																
AL Interlocked Armor • Polyolefin Insulation • PVC Inner Jacket • .045″ Industrial Grade PVC Outer Jacket (Black or Blue)																
Interlocked AL Armor -40°C Cold Impact  Rip Cord	**121700R** new	NEC: CM CEC: HL CMG FT4	4	1000 3000 5000 †	304.8 914.4 1524.0	159.0 459.0 690.0	72.0 210.6 313.0	.530 Nominal Core OD: .200	13.46 5.08	(Same as above)						
†5000 ft. put-up available in Blue only. • RJ-45 Compatible • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** Outer jacket is sunlight- and oil-resistant. • Jacket sequentially marked at 1 meter intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126																
Cat 5e • 24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																
Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black or Blue)																
 Rip Cord	**7918A**	NEC: CMR, CMX-Outdoor CEC: CMR FT4	4	1000 2000 ††	304.8 609.6	28.0 52.0	12.7 23.6	.230	5.84	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.4	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40.8 36.1 28.2 18.4 10.3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
††2000 ft. put-up available in Black only. • RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** • Third party verified to TIA/EIA-568-B.2, Category 5e																
Cat 5e • 24 AWG Solid BC • Twisted Pairs • Overall Beldfoil® Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire • See Color Code Chart																
Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black or Blue)																
Shielded  Drain Wire	**7919A**	NEC: CMR, CMX-Outdoor CEC: CMR FT4	4	1000 2000 †	304.8 609.6	35.0 68.0	15.9 30.9	.265	6.73	1 4 10 16 31.25 62.5 100	2.0 4.1 6.5 8.2 11.7 17.0 22.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3	60.3 49.2 40.8 36.1 28.2 18.4 10.3	60.8 48.7 40.8 36.7 30.9 24.8 20.8	100±15 100±15 100±15 100±15 100±15 100±15 100±15	20.0 23.0 25.0 25.0 23.6 21.5 20.1
†2000 ft. put-up available in Black only. • RJ-45 Compatible • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** • Cable passes -40°C Cold Bend per UL1581 Shield is bonded to jacket inner wall for electrical stability. • Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • P-07-KA060004-MSHA*																
Cat 5e • 24 AWG Stranded (7x32) Bare Copper Conductors • Twisted Pairs • See Color Code Chart (below)																
Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant Black PVC Jacket																
Stranded/Flexible 	**7930A** new	NEC: CMR, CMX-Outdoor CEC: CMR FT4	4	1000 2000	304.8 609.6	29.0 56.0	13.2 25.4	.240	6.09	1 4 10 16 31.25 62.5 100 200	2.5 4.9 7.8 9.9 14.1 20.4 26.4 38.9	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	59.8 48.4 39.5 34.4 25.8 15.0 5.9 —	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
Installation Temperature: 0°C to +75°C • Operating Temperature: -25°C to +75°C** • Cable passes -25°C Cold Bend per UL1581 RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • P-07-KA060003-MSHA*																

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene-propylene • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • TC = Tinned Copper

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*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.
**Subject to length de-rating.

Color Codes: DataTuff

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

For two pair products: use color codes for Pairs 2 & 3

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

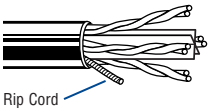
Industrial Data Solutions® — Industrial Ethernet

Category 6 DataTuff® Twisted Pair Cables, 4-Pair
Heavy-Duty Jackets

Enhanced Cat 6 • 23 AWG Bonded-Pairs Solid BC Conductors • Patented E-Spline Center Member • Rip Cord • See Color Code Chart

Polyolefin Insulation • .030″ Industrial Grade Sunlight- and Oil-resistant Black PVC Jacket

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
	7927A	NEC:	4	1000	304.8	44.0	20.0	.251	6.38	1	1.9	80.3	78.5	70.8	100±12	20.0
		CMR		2000	609.6	88.0	39.9	x	x	10	5.7	65.3	59.6	50.8	100±12	25.0
		CEC:						.339	8.61	31.25	10.2	57.9	47.7	40.9	100±15	25.0
		CMR FT4								62.5	14.7	53.4	38.7	34.9	100±15	25.0
										100	18.9	50.3	31.4	30.8	100±15	25.0
										155	23.9	47.5	23.5	27.0	100±15	22.8
										200	27.5	45.8	18.3	24.8	100±15	21.7
										250	31.2	44.3	13.2	22.8	100±20	20.5
										350	37.7	40.2	4.5	19.9	100±22	19.8
										400	40.6	39.3	0.6	18.8	100±22	19.5
										500	46.2	37.8	>0.0 ◆	16.8	100±22	18.4
										550	48.8	37.2	—	16.0	100±22	18.0
										600	51.4	36.6	—	15.2	100±22	17.6

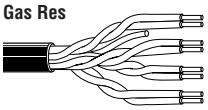


RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2-1, Category 6
Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C**
◆PSUM ACR >0 is guaranteed to 460 MHz. • U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1

Cat 6 • 23 AWG Bonded-Pairs Solid BC Conductors • See Color Code Chart (below)

Plenum • FEP Insulation • Sunlight-, Oil- and Gas-resistant Black FEP Jacket

High & Low Temp Oil Res I & II Gas Res	**7931A**	NEC:	4	1000	304.8	35.0	15.9	.214	5.44	1	2.0	72.3	70.3	64.8	100±15	20.0
		Limited								10	6.0	57.3	51.3	44.8	100±15	25.0
		Combustible								20	8.5	52.8	44.3	38.7	100±15	25.0
		FHC 25/50								31.25	10.7	49.9	39.2	34.9	100±15	23.6
		CMP								62.5	15.4	45.4	30.0	28.8	100±15	21.5
		CEC:								100	19.8	42.3	22.5	24.8	100±15	20.1
		CMP FT6								200	29.0	37.8	8.8	18.7	100±22	18.0
										250	32.8	36.3	3.5	16.8	100±32	17.3

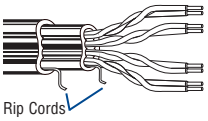


RJ-45 Compatible
Cable passes -70°C Cold Bend per UL1581 • Installation Temperature: -55°C to +150°C • Operating Temperature: -70°C to +150°C**
Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2-1, Category 6 • U.S. Patents 5,606,151 and 5,734,126

Enhanced Cat 6 • 23 AWG Bonded-Pairs Solid BC Conductors • Rip Cord • See Color Code Chart (below)

Polyolefin Insulation • PVC Inner Jacket • .035″ Industrial Grade PVC Outer Jacket (Black or Gray)

Upjacketed	**11872A**	NEC:	4	1000	304.8	66.0	30.0	.475	12.07	1	1.9	72.3	70	64.8	100±12	20.0
		CM						x	x	4	3.7	63.3	59	52.7	100±12	23.0
		CEC:						.265	6.73	10	5.9	57.3	51	44.8	100±12	25.0
		CM								16	7.5	54.3	46	40.7	100±12	25.0
		FT1								31.25	10.6	49.9	39	34.9	100±15	23.6
										62.5	15.4	45.4	30	28.8	100±15	21.5
								Nominal		100	19.8	42.3	25	24.8	100±15	21.0
								Core OD:		155	25.1	39.5	14	20.9	100±15	21.0
								.365	9.27	200	29.0	37.9	10	18.7	100±15	21.0
								x	x	310	37.1	34.9	—	14.9	100±20	18.0
								.165	4.19	350	39.8	34.2	—	13.9	100±22	17.0
										400 †	43.0	33.3	—	12.7	100±32	14.0
										500 †	49.0	31.8	—	10.8	100±32	14.0

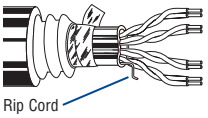


†Value provided for information only. • RJ-45 Compatible • Cable passes -25°C Cold Bend per UL1581
Installation Temperature: -10°C to +75°C • Operating Temperature: -25°C to +75°C**
Jacket sequentially marked at 2 ft. intervals • Verified to TIA/EIA-568-B.2-1, Category 6 • U.S. Patents 5,606,151, 5,734,126 and 5,821,467

Enhanced Cat 6 • 23 AWG Bonded-Pairs Solid BC Conductors • Polyester Wrap • Rip Cord • See Color Code Chart (below)

AL Interlocked Armor • Polyolefin Insulation • PVC Inner Jacket • .055″ Industrial Grade PVC Outer Jacket (Black or Gray)

Interlocked AL Armor	**121872A**	NEC:	4	1000	304.8	222.0	100.6	.684	17.37	1	1.9	72.3	70	64.8	100±12	20.0
		CM								4	3.7	63.3	59	52.7	100±12	23.0
		CEC:								10	5.9	57.3	51	44.8	100±12	25.0
		HL								16	7.5	54.3	46	40.7	100±12	25.0
		CMG FT4								31.25	10.6	49.9	39	34.9	100±15	23.6
								Nominal		62.5	15.4	45.4	30	28.8	100±15	21.5
								Core OD:		100	19.8	42.3	25	24.8	100±15	21.0
								.365	9.27	155	25.1	39.5	14	20.9	100±15	21.0
								x	x	200	29.0	37.9	10	18.7	100±15	21.0
								.165	4.19	310	37.1	34.9	—	14.9	100±20	18.0
										350	39.8	34.2	—	13.9	100±22	17.0
										400 †	43.0	33.3	—	12.7	100±32	14.0
										500 †	49.0	31.8	—	10.8	100±32	14.0



†Value provided for information only. • RJ-45 Compatible • Jacket sequentially marked at 1 meter intervals
Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C**
Verified to TIA/EIA-568-B.2-1, Category 6 • U.S. Patents 5,606,151, 5,734,126 and 5,821,467

ACR = Attenuation Crosstalk Ratio • AL = Aluminum • BC = Bare Copper • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • TC = Tinned Copper
**Subject to length de-rating.

Color Codes: DataTuff

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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Industrial Data Solutions® — Industrial Ethernet

TrayOptic® Heavy-Duty, All-Dielectric Fiber Optic Cables
Loose Tube — Indoor/Outdoor Riser & Tray

Applications

- Industrial and other harsh environment applications
- Factory automation
- Direct burial

Product Description

Laser Optimized Fiber to handle Gigabit Ethernet light sources and expanded bandwidth requirements. Passes IEEE 383-2003 flame test. Waterblocking agent for moisture protection. CPE outer jacket option provides extra chemical or abrasion resistance.

Jacket Material	PVC or CPE
Strength Member	Aramid Yarn
Jacket Color	Orange

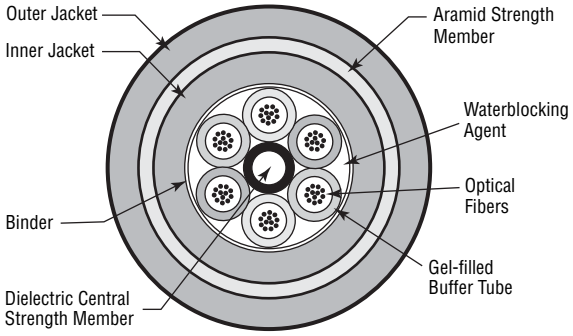
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	IEEE 383-2003

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	500 lbs./in. min.
Impact Resistance (EIA-455-25)	3.3 ft.-lbs./25 impacts min. @ 2.2N-m
Cyclic Flexing (EIA-455-104)	25 cycles, 12 lbs., 20 x OD radius min.
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Maximum Installation Load	600 lbs. (2700 N)
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Outside Diameter		PVC Jacket			CPE Jacket		
		Inches	mm	Belden Part No.	Weight Lbs./1000′	Weight kg/km	Belden Part No.	Weight Lbs./1000′	Weight kg/km
TrayOptic Series									
Riser (NEC/CEC OFNR/OFN FT4)									
2	2	0.440	11.18	**I100255**	88	131	**I100266**	83	124
4	4	0.440	11.18	**I100455**	88	131	**I100466**	83	124
6	6	0.440	11.18	**I100655**	88	131	**I100666**	83	124
8	4	0.440	11.18	**I400855**	88	131	**I400866**	83	124
12	6	0.440	11.18	**I601255**	88	131	**I601266**	83	124
18	6	0.440	11.18	**I601855**	88	131	**I601866**	83	124
24	6	0.440	11.18	**I602455**	88	131	**I602466**	83	124
36	6	0.440	11.18	**I603655**	88	131	**I603666**	83	124
48	12	0.540	13.72	**I604855**	136	202	**I604866**	129	192
60	12	0.540	13.72	**I606055**	136	202	**I606066**	129	192
72	12	0.540	13.72	**I607255**	136	202	**I607266**	129	192

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

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Industrial Data Solutions® — Industrial Ethernet

Coaxial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

Thinnet 10Base2 Ethernet • 20 AWG Stranded (19x32) .037″ TC Conductor • Duobond® II (100% Coverage) + TC Braid (93% Coverage)

Foam Polyethylene Insulation • Gray PVC Jacket

UL AWM Style 1354 (30V 60°C)	**9907**	NEC:	500	152.4	12.5	5.7	20 AWG (19x32) .037″ TC 8.8Ω/M′ 28.9Ω/km	.102	2.59	Duobond II + 93% TC Braid 5.8Ω/M′ 19.0Ω/km	.185	4.70	50	80%	25.4	83.3	1	.43	1.4
		CL2	U-1000	304.8	25.0	11.4											10	1.30	4.3
		CM	1000	304.8	25.0	11.4											50	2.90	9.5
		CEC:	1640	500.0	41.0	18.6											100	4.20	13.8
		CM	U-2500	U-762.0	60.0	27.3											200	6.10	20.0
			2500	762.0	62.5	28.4											400	8.90	29.2
			3280	1000.0	82.0	37.3											700	12.10	39.7
																	900	13.90	45.6
DEC Part No. 17-01248-00																	1000	14.80	48.6

For Plenum versions of 9907, see 89907 or 82907.

Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket

150°C	**89907**	NEC:	500	152.4	13.0	5.7	20 AWG (19x32) .037″ TC 8.8Ω/M′ 28.9Ω/km	.095	2.41	Duobond II + 93% TC Braid 5.8Ω/M′ 19.0Ω/km	.160	4.06	50	80%	25.4	83.3	1	.43	1.4
		CL2P	1000	304.8	24.0	10.9											10	1.30	4.3
		CMP	2500†	762.0	60.0	27.3											50	2.90	9.5
		CEC:															100	4.18	13.8
		CMP FT6															200	6.10	20.0
																	400	9.20	30.2
RG-58/U Type																	700	12.90	42.3
DEC Part No. 17-01246-00																	900	15.00	49.2
Suitable for Outdoor and Direct Burial applications.																	1000	16.00	52.5

Thicknet 10Base5 Ethernet • 12 AWG Solid .086″ Bare Copper Conductor • Duobond IV* Quad Shield (100% Coverage)

Foam Polyethylene Insulation • Yellow PVC Jacket

UL AWM Style 1478 (30V 60°C)	**9880**	NEC:	500	152.4	66.0	30.0	12 AWG (solid) .086″ BC 1.4Ω/M′ 4.7Ω/km	.243	6.17	Duobond IV (Duobond II + 94% TC Braid + Duofoil® + 90% TC Braid) 1.5Ω/M′ 5.0Ω/km	.405	10.29	50	78%	26.0	85.0	1	.19	.62
		CL2	1000	304.8	131.0	59.5											5	.37	1.21
		CM	1640	500.0	219.0	99.9											10	.52	1.71
		CEC:															50	1.20	3.94
		CM															100	1.70	5.58
																	200	2.55	8.37
																	400	3.90	12.80
																	700	5.50	18.10
DEC Part No. 17-00451-00																	900	6.50	21.30
Ring-band stripes marked every 2.5 meters to aid users in tap placement.																	1000	6.90	22.60

For Plenum version of 9880, see 89880.

Plenum • Foam FEP Insulation • Orange Fluorocopolymer Jacket

150°C	**89880**	NEC:	1000	304.8	134.0	60.9	12 AWG (solid) .086″ BC 1.4Ω/M′ 4.7Ω/km	.245	6.22	Duobond IV (Duobond II + 90% TC Braid + Duofoil + 90% TC Braid) 1.5Ω/M′ 5.0Ω/km	.375	9.53	50	78%	26.0	85.0	1	.18	.59
		CL2P	1640†	500.0	224.7	102.1											5	.37 max.	1.21
		CMP															10	.52 max.	1.71
		CEC:															50	1.15	3.77
		CMP FT6															100	1.65	5.41
																	200	2.45	8.04
																	400	3.80	12.50
																	700	5.60	18.40
DEC Part No. 17-00324-00																	900	6.80	22.30
Ring-band stripes marked every 2.5 meters to aid users in tap placement.																	1000	7.20	23.60
Suitable for Outdoor and Direct Burial applications.																			

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Duobond IV = Duobond II + 94% tinned copper braid + Duofoil® + 90% tinned copper braid.
(Plenum version is Duobond II + 90% tinned copper braid + Duofoil + 90% tinned copper braid.)

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

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Industrial Data Solutions® — Industrial Twinax

Belden® Blue Hose® Selection Guide for PLC and DCS Applications

Part No.	Description	Specifications
9463	**Blue Hose Standard Data Highway Cable** A Standard Data Highway Cable that is sometimes referred to as Blue Hose. Designed to be used in light industrial environments. Available in Blue, Brown or Orange up to 10,000 ft. special lengths.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil® + 55% tinned copper braid and drain wire, Blue sunlight-resistant PVC jacket. Nominal diameter: .238″.
3072F	**600V Data Highway Cable — UL Type TC** A DataTray® cable designed for cable tray use in industrial applications. Cable can occupy same tray or conduit as 600V power cables.	1-pair, 18 AWG stranded (7x26) tinned copper, flame-retardant polyolefin insulation (color coded Blue, White), Beldfoil + 55% tinned copper braid and drain wire, Blue sunlight-resistant PVC jacket. Nominal diameter: .324″. UL-1277 600V TC/PLTC/ITC/CMG.
9463F	**High-Flex Cable** A highly flexible version of the standard Blue Hose cable. The cable also has heavier braid coverage for better noise immunity.	1-pair, 20 AWG stranded (42x36) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 85% tinned copper braid, Blue sunlight-resistant PVC jacket. Nominal diameter: .243″.
YR28826*	**Dual Blue Hose Cable** Dual Data Highway/Remote I/O cable has two Twinax pairs individually shielded with an overall braid. Designed for use in daisy chain applications or applications requiring two Blue Hose cables.	2-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), each pair Beldfoil shielded (1 pair Blue tape and 1 pair Green tape), 85% tinned copper braid and drain wire, Blue PVC jacket. Nominal diameter: .382″.
YC39151*	**Dual Armored Data Highway Cable** Features two twinax pairs individually shielded with an overall braid, an inner PVC jacket, aluminum interlocked armor, with an outer PVC jacket. Designed for use in daisy chain applications or applications requiring two Blue Hose cables, with the extra mechanical protection and electrical shielding provided by the armor.	2-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), each pair Beldfoil shielded, 55% tinned copper braid and drain wire, Blue PVC inner jacket, aluminum interlocked armor, Blue sunlight-resistant PVC outer jacket. Nominal diameter: .820″.
9463DB	**Gel-Filled Direct Burial Cable** A gel-filled Blue Hose cable featuring a low-density polyethylene (LDPE) jacket. Especially suited for high-moisture environments and burial applications.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, CoreGuard® flooding compound, Blue sunlight-resistant low density polyethylene jacket. Nominal diameter: .240″.
89463	**Plenum Cable** A plenum, 200°C grade cable that is suitable for installations where high and low temperatures, as well as corrosive environments, are encountered.	1-pair, 20 AWG stranded (7x28) tinned copper, FEP insulation (color coded Blue, Clear), Beldfoil + 76% tinned copper braid and drain wire, Blue FEP jacket. Nominal diameter: .203″.
YR28764*	**Thick-Wall, Heavy-Duty Cable — UL Type PLTC** A rugged, heavy-duty cable specially designed for abusive environments. A .069″ thick jacket provides extra protection against cuts and abrasion.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue sunlight-resistant PVC jacket. Nominal diameter: .380″.
YR41104*	**Low Smoke, Zero Halogen Cable** For applications concerned with smoke emissions, toxicity and electronic component corrosion.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue Halоarrest® jacket. Nominal diameter: .256″.
129463	**Aluminum Interlocked Armor Blue Hose Cable** Features interlocked aluminum armor combined with a PVC jacket and is an ideal alternative to conduit installation. Provides both mechanical protection and electrical shielding. Up to 25 Data Highway cables can be bundled under one sheath.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue PVC inner jacket, aluminum interlocked armor, Blue PVC sunlight-resistant outer jacket. Nominal overall diameter: .563″.
139463	**Steel Interlocked Armor Blue Hose Cable** Features interlocked galvanized steel armor combined with a PVC jacket. Provides mechanical protection and electrical shielding, as well as prevention against the low-frequency 60 Hz magnetic noise from power lines. Up to 25 cables can be bundled under one sheath.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue PVC inner jacket, steel interlocked armor, Blue sunlight-resistant outer PVC jacket. Nominal overall diameter: .563″.
189463	**Continuously Corrugated Aluminum Armor Blue Hose Cable** Features continuously corrugated aluminum armor combined with a PVC jacket. Provides mechanical protection, electrical shielding and is impervious to moisture.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue PVC inner jacket, continuously corrugated aluminum armor, Blue sunlight-resistant PVC outer jacket. Nominal overall diameter: .500″.
YR29565*	**Colored Blue Hose** When your application calls for multiple Blue Hose cables you can rest assured that Belden has the solution. This special construction is available in Red, Yellow, Green, White or Pink.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, sunlight-resistant PVC jacket. Nominal diameter: .238″.

*Custom made product. Minimum order quantity may apply.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

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Industrial Data Solutions® — Industrial Twinax

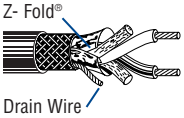
Blue Hose® Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

78 Ohm • 20 AWG Stranded (7x28) .038″ TC Conductors • Beldfoil® (100% Coverage) + TC Braid Shield (55% Coverage) • TC Drain Wire

Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket (Color Code: Clear, Blue)

Blue Hose	**9463**	NEC:	100	30.5	4.2	1.9	20 AWG	.154	3.91	Beldfoil	.238	6.05	78	66%	19.7	64.6	1	.6	2.0
UL AWM		CM CL2	U-500	U-152.4	18.5	8.4	(7x28)			+55%							10	2.1	6.9
Style 2464		CEC:	500	152.4	18.5	8.4	.038″			TC Braid							50	5.0	16.4
(300V 80°C)		CM	U-1000	U-304.8	37.0	16.8	Tinned			4.1Ω/M′							100	7.5	24.6
			1000▲	304.8	37.0	16.8	Copper			13.4Ω/km							200	11.0	36.1
Z- Fold®			6000▲†	1828.8	222.0	100.9	9.5Ω/M′										400	16.0	52.5
			10000◆†	3048.0	370.0	168.0	31.0Ω/km												



Drain Wire

CPE jacket optional.

Allen-Bradley P/N 1770-CD • P-7K-SC-182141-MSHA*

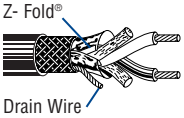
▲1000 ft. and 6000 ft. put-ups also available in Brown, Orange or Purple.

◆10000 ft. put-up available in Brown or Orange only.

†Final put-up length may vary ±10% from length shown.)

Polyethylene Insulation • Blue Sunlight-resistant LDPE Jacket (Color Code: Clear, Blue)

Flooded Direct Burial Blue Hose	**9463DB**	—	1000	304.8	33.0	15.0	20 AWG	.154	3.91	Beldfoil	.240	6.10	78	66%	19.7	64.6	1	.6	2.0
			5000	1524.0	155.0	70.4	(7x28)			+55%							10	2.1	6.9
300V 80°C							.038″			TC Braid							50	5.0	16.4
Z- Fold®							Tinned			4.1Ω/M′							100	7.5	24.6
							Copper			13.4Ω/km							200	11.0	36.1
							9.5Ω/M′										400	16.0	52.5
							31.0Ω/km												



Drain Wire

Allen-Bradley P/N 1770-CD

78 Ohm • 20 AWG Stranded (42x36) .038″ TC Conductors • Overall Beldfoil (100% Coverage) + TC Braid Shield (85% Coverage)

Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket (Color Code: Clear, Blue)

High-Flex Blue Hose	**9463F**	NEC:	1000	304.8	42.0	19.1	20 AWG	.154	3.91	Beldfoil	.243	6.17	78	66%	19.7	64.6	1	.6	2.0
		CM CL2	5000	1524.0	205.0	93.1	(42x36)			+85%							10	2.1	6.9
UL AWM		CEC:					.038″			TC Braid							50	5.0	16.4
Style 2464		CM					Tinned			5.0Ω/M′							100	7.5	24.6
(300V 60°C)							Copper			6.4Ω/km							200	11.0	36.1
							9.5Ω/M′										400	16.0	52.5
							31.0Ω/km												

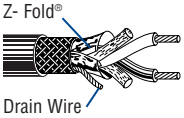


Allen-Bradley P/N 1770-CD • P-7K-SC-182141-MSHA*

78 Ohm • 20 AWG Stranded (7x28) .038″ TC Conductors • Overall Beldfoil (100% Coverage) + TC Braid Shield (76% Coverage) • Drain Wire

Plenum • FEP Insulation • Blue FEP Jacket (Color Code: Clear, Blue)

High Temperature Blue Hose	**89463**	NEC:	1000	304.8	34.0	15.4	20 AWG	.151	3.83	Beldfoil	.203	5.16	78	69%	19.7	64.6	1	.6	2.0
		CMP CL2P	2500	762.0	90.0	40.9	(7x28)			+76%							10	2.1	6.9
300V 200°C		CEC:					.038″			TC Braid							50	5.0	16.4
Z- Fold®		CMP FT6					Tinned			4.1Ω/M′							100	7.5	24.6
							Copper			13.4Ω/km							200	11.0	36.1
							9.5Ω/M′										400	16.0	52.5
							31.0Ω/km												



Drain Wire

Allen-Bradley P/N 1770-CD

DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • LDPE = Low-density Polyethylene • TC = Tinned Copper

*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

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Industrial Data Solutions® — Industrial Twinax

Blue Hose® and Other Twinaxial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

78 Ohm • 20 AWG Stranded (7x28) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (55% Coverage) • TC Drain Wire

Aluminum Interlocked Armor • PE Insulation • Blue Sunlight-resistant PVC Outer Jacket* (Color Code: Clear, Blue)

Aluminum Armored Blue Hose 300V 60°C	**129463**	NEC: CM CL2 CEC: CM, CMG FT4, HLBCD (Haz Loc)	1000† 6000†	304.8 1828.8	122.0 924.0	55.5 420.0	20 AWG (7x28) .038″ Tinned Copper 9.5Ω/M′ 31.0Ω/km	.154	3.91	Beldfoil +55% TC Braid 4.1Ω/M′ 13.4Ω/km	Inner Jacket: .238 6.05 Overall: .563 14.30		78	66%	19.7	64.6	1 10 50 100 200 400	.6 2.1 5.0 7.5 11.0 16.0	2.0 6.9 16.4 24.6 36.1 52.5



*Blue PVC inner jacket.
Allen-Bradley P/N 1770-CD

Steel Interlocked Armor • PE Insulation • Blue Sunlight-resistant PVC Outer Jacket* (Color Code: Clear, Blue)

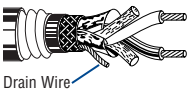
Steel Armored Blue Hose 300V 60°C	**139463**	NEC: CM CL2 CEC: CM, CMG FT4, HLBCD (haz loc)	1000† 6000†	304.8 1828.8	220.0 1488.0	100.0 676.4	20 AWG (7x28) .038″ Tinned Copper 9.5Ω/M′ 31.0Ω/km	.154	3.91	Beldfoil +55% TC Braid 4.1Ω/M′ 13.4Ω/km	Inner Jacket: .238 6.05 Overall: .563 14.30		78	66%	19.7	64.6	1 10 50 100 200 400	.6 2.1 5.0 7.5 11.0 16.0	2.0 6.9 16.4 24.6 36.1 52.5



*Blue PVC inner jacket.
Allen-Bradley P/N 1770-CD

Continuously Corrugated AL Armor • PE Insulation • Blue Sunlight-resistant PVC Outer Jacket* (Color Code: Clear, Blue)

Continuously Armored Blue Hose 300V 60°C	**189463**	NEC: PLTC	2000†	609.6	258.0	117.1	20 AWG (7x28) .038″ Tinned Copper 9.5Ω/M′ 31.0Ω/km	.154	3.91	Beldfoil +55% TC Braid 4.1Ω/M′ 13.4Ω/km	Inner Jacket: .238 6.05 Overall: .500 12.70		78	66%	19.7	64.6	1 10 50 100 200 400	.6 2.1 5.0 7.5 11.0 16.0	2.0 6.9 16.4 24.6 36.1 52.5



*Blue PVC inner jacket.
Allen-Bradley P/N 1770-CD

78 Ohm • 20 AWG Stranded (7x28) .038″ Tinned Copper Conductors • Tinned Copper Braid Shield (93% Coverage)

Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue)

UL AWM Style 2092 (300V 60°C)	**9272**	NEC: CM CEC: CM	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.5 20.5 20.0 41.0 40.0	2.0 9.3 9.1 18.6 18.2	20 AWG (7x28) .038″ Tinned Copper 9.5Ω/M′ 31.0Ω/km	.156	3.96	93% TC Braid Shield 3.4Ω/M′ 11.2Ω/km	.244	6.20	78	66%	19.7	64.6	1 10 50 100 200 400	.6 2.1 5.0 7.5 11.0 16.0	2.0 6.9 16.4 24.6 36.1 52.5

For Plenum version of 9272, see 89272.

CPE jacket optional.

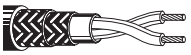


95 Ohm • RG-22B/U Type • 18 AWG Stranded (7x26) Bare Copper Conductors†† • TC Double Braid Shield (95% Coverage)

Polyethylene Insulation • PE Inner Jacket • Black Non-contaminating PVC Outer Jacket

80°C VW-1	**9250**	—	500 1000	152.4 304.8	61.5 121.0	27.9 54.9	18 AWG (7x26) .046″ BC 6.6Ω/M′ 21.5Ω/km	.285	7.24	2 TC Braid 95% Shield .9Ω/M′ 3.0Ω/km	.416	10.57	95	66%	16.0	52.5	1 10 20 50 100 400	.3 .9 1.3 2.1 3.0 6.3	1.0 3.0 4.3 6.9 9.8 20.7

CPE jacket optional.



††One conductor has tinned center strand.

AL = Aluminum • BC = Bare Copper • DCR = DC Resistance • PE = Polyethylene • TC = Tinned Copper

†Final put-up length may vary ±10% from length shown.

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Industrial Data Solutions® — Industrial Twinax

Twinaxial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

100 Ohm • 20 AWG Stranded (7x28) .037″ One TC, One BC Conductor • Duofoil® (100% Coverage) + TC Braid Shield (86% Coverage)

Polyethylene Insulation • Polyethylene Inner Jacket • Black PVC Outer Jacket

75°C	**9207**	NEC:	100	30.5	7.1	3.2	20 AWG	.236	5.99	Duofoil	.330	8.38	100	66%	14.5	47.6	1	.3	1.0
		CMG CL2	U-500	U-152.4	34.0	15.5	(7x28)			+ 86%							10	1.2	3.9
		CEC:	500	152.4	34.5	15.7	.037″			TC Braid							50	2.8	9.2
		CMG FT4	1000	304.8	68.0	30.9	1 TC			2.5Ω/M′							100	4.1	13.5
			1640	500.0	111.5	50.7	1 BC			8.2Ω/km							200	6.4	21.0
			2000	609.6	136.0	61.8	9.5Ω/M′										400	10.2	33.5
			3280	1000.0	219.8	99.9	31.0Ω/km												
IBM P/N 7362211			5000	1524.0	350.0	159.1													

For Plenum version of 9207, see 89207.

CPE jacket optional.

124 Ohm • 25 AWG Stranded (7x33) .021″ Tinned Copper Conductors • Beldfoil® (100% Coverage) • Stranded Tinned Copper Drain Wire

Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue)

UL AWM	**9271**	NEC:	100	30.5	3.2	1.5	25 AWG	.170	4.32	100%	.240	6.10	124	66%	12.2	40.0	1	.6	2.0
Style 2092		CM	500	152.4	14.0	6.4	(7x33)			Beldfoil							10	1.7	5.6
(300V 60°C)		CEC:	U-1000	U-304.8	27.0	12.3	.021″			Shield							50	3.6	11.8
		CM	1000	304.8	28.0	12.7	Tinned			12.0Ω/M′							100	5.0	16.4
							Copper			39.4Ω/km							200	6.9	22.6
							31.8Ω/M′										400	9.6	31.5
Shorting Fold							104.3Ω/km												

CPE jacket optional.

124 Ohm • 16 AWG Solid .051″ Bare Copper Conductors • Duofoil (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)

Foam Polyethylene Insulation • Black PVC Jacket (Color Code: Clear, Blue)

UL AWM	**9860**	NEC:	500	152.4	52.0	23.6	16 AWG	.322	8.18	Duofoil	.440	11.18	124	78%	10.9	35.8	1	.2	.6
Style 2448		CMX	1000	304.8	103.0	46.8	(solid)			+90%							10	.7	2.3
(30V 60°C)		CEC:	2000	609.6	202.0	91.8	.051″			TC Braid							50	1.8	5.9
		CMX					Bare			1.3Ω/M′							100	2.9	9.5
							Copper			4.3Ω/km							200	4.1	13.5
							4.2Ω/M′										400	6.2	20.3
							13.8Ω/km												

CPE jacket optional.

150 Ohm • 22 AWG Stranded (19x34) .031″ Tinned Copper Conductors • Duofoil (100% Coverage) • Stranded Tinned Copper Drain Wire

Datalene® Insulation • Black PVC Jacket (Color Code: Black, Yellow)

UL AWM	**9182**	NEC:	U-500	U-152.4	22.5	10.2	22 AWG	.275	6.98	100%	.345	8.76	150	78%	8.8	28.9	1	.4	1.3
Style 2668		CL2X CMX	500	152.4	23.0	10.4	(19x34)			Duofoil							10	1.2	3.9
(30V 60°C)		CEC:	1000	304.8	44.0	20.0	.031″			Shield							50	2.7	8.9
VW-1		CMX					Tinned			6.3Ω/M′							100	4.3	14.1
							Copper			20.7Ω/km							200	6.2	20.3
							14.0Ω/M′										400	8.8	28.9
							45.9Ω/km												

For Plenum version of 9182, see 89182.

Dual version: YR41609

CPE jacket optional.

Plenum • Foam FEP Teflon® Insulation • Black FEP Teflon Jacket (Color Code: Black, Yellow)

	89182	NEC:	100	30.5	6.4	2.9	22 AWG	.278	7.06	100%	.307	7.80	150	78%	8.8	28.9	1	.4	1.3
		CMP	500†	152.4	28.0	12.7	(19x34)			Duofoil							10	1.2	3.9
		CL2P	1000†	304.8	53.0	24.1	.031″			Shield							50	2.7	8.9
		CEC:					Tinned			6.3Ω/M′							100	4.3	14.1
		CMP FT6					Copper			20.7Ω/km							200	6.2	20.3
							14.0Ω/M′										400	8.8	28.9
							45.9Ω/km												

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • TC = Tinned Copper

†Spools are one piece, but length may vary ±10% from length shown.

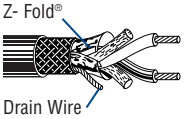
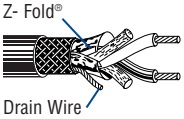
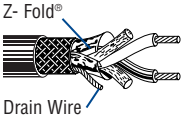
Teflon is a DuPont trademark.

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Industrial Data Solutions® — Industrial Twinax

DataTray® 600V Twinaxial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
18 AWG Stranded (7x26) Tinned Copper Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (55% Coverage) • TC Drain Wire																			
Flame-retardant Polyolefin Insulation • Blue Sunlight-resistant PVC Jacket (Color Code: Natural, Blue)																			
UL Type TC 600V 75°C Z- Fold®  Drain Wire P-MSHA-C-7K-1827*	**3072F**	NEC: CMG, ITC TC, PLTC CEC: CMG FT4	250 500 1000 2500 5000† 10000†	76.2 152.4 304.8 762.0 1524.0 3048.0	17.5 35.0 69.0 170.0 345.0 710.0	8.0 15.9 31.3 77.2 156.6 322.3	18 AWG (7x26) .046″ Tinned Copper 6.9Ω/M′ 22.7Ω/km	.192	4.88	Beldfoil +55% TC Braid (100% Shield) 3.2Ω/M′ 10.4Ω/km	.324	8.23	78	65%	19.5	64	1 10 50 100 200 400	.5 2.0 3.8 5.4 7.6 10.7	1.7 6.5 12.4 17.6 24.8 35.1
												For CPE jacketed version order Part No. YM45044.							
UL Type TC 600V 75°C Z- Fold®  Drain Wire	**3073F**	NEC: CMG, ITC TC, PLTC CEC: CMG FT4	250 1000 5000†	76.2 304.8 1524.0	21.0 85.0 420.0	9.5 38.6 190.7	18 AWG (7x26) .046″ Tinned Copper 6.9Ω/M′ 22.7Ω/km	.246	6.25	Beldfoil +55% TC Braid (100% Shield) 2.9Ω/M′ 9.6Ω/km	.388	9.86	100	65%	15.3	50.2	1 10 50 100 200 400	.4 1.3 3.0 4.2 6.0 7.5	1.3 4.4 9.7 13.8 19.5 24.7
												CPE jacket optional.							
UL Type TC 600V 75°C Z- Fold®  Drain Wire	**3074F**	NEC: CMG, ITC TC, PLTC CEC: CMG FT4	500 1000 2500	152.4 304.8 762.0	62.5 121.0 300.0	28.4 54.9 136.2	18 AWG (7x26) .046″ Tinned Copper 6.9Ω/M′ 22.7Ω/km	.328	8.33	Beldfoil +55% TC Braid (100% Shield) 2.8Ω/M′ 9.1Ω/km	.460	11.68	124	65%	12.3	40.3	1 10 50 100 200 400	.3 1.1 2.4 3.4 4.8 6.8	1.1 3.5 7.8 11.1 15.7 22.2
												CPE jacket optional.							

DCR = DC Resistance • TC = Tinned Copper if conductor, or Tray Cable if NEC rating.

*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration certification.

†Final put-up length may vary -0 to +10% from length shown.

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Industrial Data Solutions® — Industrial Coax

ControlNet™ Quad Shielded Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel Conductor • Duobond® IV* Quad Shield (100% Coverage)																			
Foam Polyethylene Insulation • PVC Jacket (Black or Intrinsically Safe Blue)																			
	3092A	NEC: CL2R CMR CEC: CMG FT4	500 1000 2000 2500	152.4 304.8 609.6 762.2	20.0 39.0 78.0 92.5	9.1 17.7 35.4 42.0	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.8Ω/km	.180	4.57	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.298	7.57	75	82%	16.2	53.1	1 2 5 10 20 50 100 200 300 400	.35 .38 .45 .59 .86 1.37 1.97 2.82 3.48 4.04	1.1 1.2 1.5 1.9 2.8 4.5 6.5 9.3 11.4 13.3
Allen-Bradley P/N 1786																			
Plenum • Foam FEP Insulation • Fluorocopolymer Jacket (Black or Intrinsically Safe Blue◆)																			
150°C	**3093A**	NEC: CMP CEC: CMP FT6	1000◆ 2000† 2500†	304.8 609.6 762.0	40.0 80.0 95.0	18.2 36.3 43.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.8Ω/km	.170	4.32	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.274	6.96	75	82%	16.3	53.5	1 2 5 10 20 50 100 200 300 400	.36 .38 .50 .65 .95 1.50 2.12 2.99 3.66 4.23	1.2 1.2 1.6 2.1 3.1 4.9 7.0 9.8 12.0 13.9
◆Blue available as standard in 1000 ft. only. Suitable for Outdoor and Direct Burial applications. • Allen-Bradley P/N 1786																			
RG-6/U Type • 20 AWG Stranded (105x40) Bare Copper Conductor • Duobond IV* Quad Shield (100% Coverage)																			
Foam Polyethylene Insulation • Black PVC Jacket																			
High-Flex	**3092F**	NEC: CL2R CMR CEC: CMG FT4	1000 5000	304.8 1524.0	44.0 220.0	20.0 99.8	20 AWG (105x40) .040″ Bare Copper 10.5Ω/M′ 34.4Ω/km	.183	4.65	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.303	7.70	75	79%	17.0	55.8	1 2 5 10 20 50 100 200 300 400	.36 .47 .80 1.20 2.00 3.20 4.60 6.50 8.00 9.30	1.2 1.5 2.6 3.9 6.6 10.5 15.1 21.3 26.2 30.5
IEEE 802.4 MAP/IEEE 802.7 Mini-MAP. • Allen-Bradley P/N 1786 For Rockwell authorized Flexible ControlNet order YR28890 (Tinned Copper Braid version).																			
RG-6/U Type • 18 AWG Solid Bare Copper-Covered Steel Conductor • Duobond IV* Quad Shield (100% Coverage)																			
Aluminum Interlocked Armor • Foam Polyethylene Insulation • PVC Inner Jacket • Black PVC Sunlight Resistant Outer Jacket																			
75°C	**123092A** new	NEC: CM CEC: CMG, FT4, HL	1000††	304.8	180.0	81.7	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	Inner Jacket .298 Overall: .620	7.57 15.75	75	82%	16.2	53.2	1 2 5 10 20 50 100 200 300 400	.35 .38 .45 .59 .86 1.37 1.97 2.82 3.48 4.04	1.2 1.3 1.5 1.9 2.8 4.5 6.5 9.3 11.4 13.3
Allen-Bradley P/N 1786 Jacket sequentially marked at 1 meter intervals.																			
Continuously Corrugated Aluminum Armor • Foam Polyethylene Insulation • PVC Inner Jacket • Black PVC Outer Jacket																			
75°C	**183092A** new	NEC: CL2, CM	2000▲	609.6	350.0	158.9	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	Inner Jacket .298 Overall: .570	7.57 14.48	75	82%	16.2	53.2	1 2 5 10 20 50 100 200 300 400	.35 .38 .45 .59 .86 1.37 1.97 2.82 3.48 4.04	1.2 1.3 1.5 1.9 2.8 4.5 6.5 9.3 11.4 13.3
Allen-Bradley P/N 1786 Jacket sequentially marked at 2 ft. intervals.																			

Sweep tested 5 MHz to 50 MHz.
CPE jacket optional.

Sweep tested 5 MHz to 50 MHz.

Sweep tested 5 MHz to 400 MHz.
CPE jacket optional.
123092F — Aluminum Armor
133092F — Steel Armor

Sweep tested 5 MHz to 50 MHz.
CPE jacket optional.
133092A — Steel Armor

Sweep tested 5 MHz to 50 MHz.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene

*Duobond IV Quad Shield = Duobond II Foil + 60% aluminum braid + Duofoil + 40% aluminum braid.

†Final put-up length may vary 0 to +10% from length shown.
††Final put-up length may vary ±5% from length shown.
▲Final put-up length may vary ±10% from length shown.

ControlNet is a ControlNet International trademark.

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Industrial Data Solutions® — Industrial Coax

ControlBus™ Quad Shielded Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

RG-6/U Type • 20 AWG Stranded (105x40) Bare Copper Conductor • Duobond® IV* Quad Shield (100% Coverage)

Foam Polyethylene Insulation • Black PVC Jacket

High-Flex	3092F	NEC: CL2R CMR CEC: CMG FT4	1000 5000	304.8 1524.0	44.0 225.0	20.0 102.2	20 AWG (105x40) .040″ Bare Copper 10.5Ω/M′ 34.4Ω/km	.183	4.65	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.303	7.70	75	79%	17.0	55.8	1 2 5 10 20 50 100 200 300 400	.36 .47 .80 1.20 2.00 3.20 4.60 6.50 8.00 9.30	1.2 1.5 2.6 3.9 6.6 10.5 15.1 21.3 26.2 30.5



Sweep tested 5 MHz to 400 MHz.
CPE jacket optional.

IEEE 802.4 MAP/IEEE 802.7 Mini-MAP.

RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel Conductor • Duobond IV* Quad Shield (100% Coverage)

Gas-Injected Foam Polyethylene Insulation • Gray PVC Jacket

	3131A	NEC: CL2R CMR CEC: CMR FT4	1000 2500	304.8 762.0	41.0 100.0	18.6 45.4	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.8Ω/km	.180	4.57	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.300	7.62	75	82%	16.2	53.1	1 2 5 10 20 50 100 200 300 400	.35 .38 .45 .59 .86 1.37 1.97 2.82 3.48 4.04	1.1 1.2 1.5 1.9 2.8 4.5 6.5 9.3 11.4 13.3



Sweep tested 5 MHz to 400 MHz.
CPE jacket optional.

IEEE 802.4 MAP/IEEE 802.7 Mini-MAP.
Tap marks every 2.6 meters to aid users in installation.

Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket

150°C	3132A	NEC: CMP CEC: CMP FT6	1000	304.8	36.0	16.3	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.8Ω/km	.170	4.32	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.274	6.96	75	82%	16.3	53.5	1 2 5 10 20 50 100 200 300 400	.36 .38 .50 .65 .95 1.50 2.12 2.99 3.66 4.23	1.2 1.2 1.6 2.1 3.1 4.9 7.0 9.8 12.0 13.9



Sweep tested 5 MHz to 400 MHz.

IEEE 802.4 MAP/IEEE 802.7 Mini-MAP.
Tap marks every 2.6 meters to aid users in installation.
Suitable for Outdoor and Direct Burial applications.

RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel Conductor • Duobond IV* Quad Shield (100% Coverage)

Gas-Injected Foam Polyethylene Insulation • Gray PVC Jacket

	3094A	NEC: CL2R CMR CEC: CMG FT4	500 1000 2000	152.4 304.8 609.6	35.5 62.0 140.0	16.1 28.1 63.6	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV Quad Shield 1.5Ω/M′ 4.9Ω/km	.407	10.34	75	82%	16.2	53.1	1 2 5 10 20 50 100 200 300 400	.16 .18 .26 .38 .55 .83 1.17 1.60 1.99 2.30	.5 .6 .9 1.2 1.8 2.7 3.8 5.3 6.5 7.5



Sweep tested 5 MHz to 400 MHz.
CPE jacket optional.

IEEE 802.4 MAP
Tap marks every 2.6 meters to aid users in installation.

Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket

150°C	3095A	NEC: CMP CEC: CMP FT6	1000	304.8	76.0	34.5	14 AWG (solid) .064″ BCCS 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV Quad Shield 3.9Ω/M′ 12.8Ω/km	.387	9.83	75	82%	16.5	54.1	1 2 5 10 20 50 100 200 300 400	.17 .22 .28 .40 .60 1.20 1.70 2.50 3.04 3.50	.6 .7 .9 1.3 2.0 3.9 5.6 8.2 10.0 11.5



Sweep tested 5 MHz to 400 MHz.

IEEE 802.4 MAP
Tap marks every 2.6 meters to aid users in installation.
Suitable for Outdoor and Direct Burial applications.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene

*Duobond IV Quad Shield = Duobond II Foil + 60% aluminum braid + Duofoil® + 40% aluminum braid.

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Industrial Data Solutions® — Industrial Data

DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
FOUNDATION Fieldbus/PROFIBUS PA • 18 AWG Stranded (7x26) TC Conductors • Beldfoil® Shield (100% Coverage) • TC Drain Wire																			
Polyolefin Insulation • Orange or Blue PVC Jacket (Color Code: Blue, Orange)																			
Type A 300V 105°C (31.25 KBits/sec)	**3076F**	NEC: PLTC CM ITC CEC: CM	250 500 1000 2500 5000†	76.2 152.4 304.8 762.0 1524.0	10.5 18.5 37.0 85.0 170.0	4.8 8.4 16.8 38.6 77.2	(2) 18 AWG (7x26) .048″ Tinned Copper 7.5Ω/M′ 24.6Ω/km	.088	2.24	100% Beldfoil Shield 7.5Ω/M′ 24.6Ω/km	.253	6.43	100 @ 31.25 KHz	66%	24.0	78.7	.039	.08	.26
Shorting Fold																			
123076F — Version with Aluminum Interlocked Armor 133076F — Version with Steel Interlocked Armor YM47023 — CPE jacketed version YM46698 — Black & White color-coded pairs YM47090 — Various colored jackets YM41725 — LSZH (FRNC) jacketed version																			
Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Blue available as standard in 1000 ft. put-up only.																			
FOUNDATION Fieldbus • 22 AWG Stranded (7x30) TC Conductors • Beldfoil Shield (100% Coverage) • Tinned Copper Drain Wire																			
Polyolefin Insulation • Orange PVC Jacket (Color Code: Blue, Orange)																			
Type B 300V 105°C (31.25 KBits/sec)	**3077F**	NEC: PLTC CM ITC CEC: CM	500† 1000†	152.4 304.8	11.0 23.0	5.0 10.4	(2) 22 AWG (7x30) .030″ Tinned Copper 17.1Ω/M′ 56.0Ω/km	.059	1.50	100% Beldfoil Shield 11.4Ω/M′ 37.4Ω/km	.196	4.97	100 @ 31.25 KHz	66%	23.5	77.1	.039	.14	.45
Shorting Fold																			
123077F — Version with Aluminum Interlocked Armor 133077F — Version with Steel Interlocked Armor CPE and LSZH jacketed versions also available.																			
FHDPE Insulation • Orange PVC Jacket (Color Code: Blue, Orange)																			
High Speed▲ 300V 75°C (1.0 & 2.5 MBits/sec)	**3078F**	NEC: PLTC CM CEC: CM	250 500 1000 2500	76.2 152.4 304.8 762.0	10.0 23.0 44.0 115.0	4.5 10.4 20.0 52.2	(2) 22 AWG (7x30) .030″ Tinned Copper 17.1Ω/M′ 56.1Ω/km	.121	3.07	100% Beldfoil Shield 3.3Ω/M′ 11.1Ω/km	.351	8.92	150 @ 1 MHz	78%	8.5	27.9	.250 .625 1.250 3.125	.18 .26 .34 .55	.59 .85 1.12 1.81
Shorting Fold																			
123078F — Version with Aluminum Interlocked Armor 133078F — Version with Steel Interlocked Armor CPE and LSZH jacketed versions also available.																			
PROFIBUS DP • 22 AWG Solid Bare Copper Conductors • Beldfoil (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)																			
FHDPE Insulation • Chrome or Purple PVC Jacket (Color Code: Red, Green)																			
300V 75°C	**3079A**	NEC: PLTC CMG CEC: CMG FT4	1000 2000 3600	304.8 609.6 1097.6	56.0 112.0 201.6	25.4 50.8 91.4	(2) 22 AWG (solid) .026″ Bare Copper 16.0Ω/M′ 52.5Ω/km	.099	2.52	Beldfoil + 65% TC Braid Shield (100% Coverage) 3.9Ω/M′ 12.8Ω/km	.315	8.00	150	78%	8.5	27.9	.2 4.0 16.0 100.0 300.0	.27 .67 1.37 3.75 6.52	.9 2.2 4.5 12.3 21.4
123079A — Aluminum Interlocked Armor 133079A — Steel Interlocked Armor YR45047 — CPE jacketed version YR44731 — LSZH (FRNC) jacketed version																			
UL AWM 20201 (600V) Siemens Sinec L2 cable.																			
PROFIBUS DP • 22 AWG Stranded (7x30) Bare Copper Conductors • Beldfoil (100% Coverage) + TC Braid Shield (65% Coverage)																			
FR-FPE Insulation • Purple PVC Jacket (Color Code: Red, Green)																			
300V 75°C	**3079E**	NEC: PLTC CMG CEC: CMG FT4	1000 1640 3280	304.8 500.0 1000.0	44.0 73.8 144.3	20.0 33.5 65.5	(2) 22 AWG Stranded (7x30) Bare Copper 16.0Ω/M′ 52.5Ω/km	.099	2.52	Beldfoil + 65% TC Braid Shield (100% Coverage) 3.9Ω/M′ 12.8Ω/km	.315	8.00	150	78%	8.5	27.9	.2 4.0 16.0	.34 .81 1.64	1.1 2.7 5.4

DCR = DC Resistance • FHDPE = Foamed High-Density Polyethylene • FR-FPE = Flame-Retardant Polyethylene • FRNC = Flame-Retardant Non-Corrosive • LSZH = Low-Smoke Zero-Halogen • TC = Tinned Copper

†Final put-up length may vary -0 to +10% from length shown.

▲For HSE, see Industrial Ethernet Section for copper and fiber cables.

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Industrial Data Solutions® — Industrial Data

DeviceBus® for ODVA DeviceNet™

DeviceNet Communications Rate Table

Communications Rate	Maximum Distance																			
	3082A		3082F		3082K		3083A		3084F		3084A/3085A		7895A		7896A		7897A		7900A	
	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m
125 Kbps	1640	500	1640	500	1378	420	1640	500	328	100	328	100	984	300	1378	420	1640	500	328	100
250 Kbps	820	250	820	250	656	200	820	250	328	100	328	100	820	250	656	200	820	250	328	100
500 Kbps	328	100	328	100	246	75	328	100	328	100	328	100	328	100	328	100	328	100	328	100

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

600V Class 1 Thick • 15 and 18 AWG Stranded TC Conductors • Individually Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)

PVC/Nylon Insulation (Power) • **FEP Insulation** (Data) • **Gray Sunlight/Oil-resistant PVC Jacket**

High Velocity Thick 600V 75°C	**7897A**	NEC: TC-ER	500 1000 2000	152.4 304.8 609.6	69.5 135.0 274.0	31.6 61.3 124.4	(2)15 AWG TC (19x28) 3.6Ω/M′ 11.8Ω/km (2)18 AWG TC (19x30) 6.9Ω/M′ 22.6Ω/km	100% Individual Foil + Overall 65% TC Braid 1.8Ω/M′ 5.9Ω/km	Power Pair: Red&Black Data Pair: Blue&White	.460	11.7	120	75%	12.0	39.4	.125 .500 1.000	.13 .25 .40	.43 .82 1.31



18 AWG stranded (19x30) tinned copper drain wire.
Meter marks on jacket to aid users in installation.
Allen-Bradley P/N 1485 CPI-A

600V Class 1 ODVA Cable V • 16 and 18 AWG Stranded TC Cond. • Individ. Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)

PVC/Nylon Insulation (Power) • **F-R Polypropylene Insulation** (Data) • **Gray Sunlight/Oil-resistant PVC Jacket**

600V 75°C	**7896A**	NEC: TC-ER	500 1000 2000	152.4 304.8 609.6	89.0 168.0 340.0	40.4 76.2 154.2	(2)16 AWG TC (19x29) 4.9Ω/M′ 16.1Ω/km (2)18 AWG TC (19x30) 6.9Ω/M′ 22.6Ω/km	100% Individual Foil + Overall 65% TC Braid 1.8Ω/M′ 5.9Ω/km	Power Pair: Red&Black Data Pair: Blue&White	.525	13.34	120	64%	14.7	48.2	.125 .500 1.000	.13 .25 .40	.43 .82 1.31



C(UL) AWM I/II A/B
16 AWG stranded (19x29) tinned copper drain wire.
Meter marks on jacket to aid users in installation.
Allen-Bradley P/N 1485 CPI-A

600V Class 1 ODVA Cable IV • 16 and 18 AWG Stranded Tinned Copper Conductors • Unshielded

PVC/Nylon Insulation (Power) • **F-R Polypropylene Insulation** (Data) • **Gray Sunlight/Oil-resistant PVC Jacket**

Drop 600V 75°C	**7900A**	NEC: TC-ER CEC: FT1	500 1000	152.4 304.8	51.0 105.0	23.1 47.6	(2)16 AWG TC (19x29) 4.9Ω/M′ 16.1Ω/km (2)18 AWG TC (19x30) 6.9Ω/M′ 22.6Ω/km	Unshielded	Power Pair: Red&Black Data Pair: Blue&White	.430	10.92	120	64%	14.7	48.2	.125 .500 1.000	.13 .25 .40	.43 .82 1.31



C(UL) AWM I/II A/B
Meter marks on jacket to aid users in installation.
Allen-Bradley P/N 1485 CPI-C

DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • F-R = Flame-retardant • TC = Tinned Copper • TC-ER = Tray Cable Exposed Run per 2005 NEC Article 336

ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.

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DeviceBus® for ODVA DeviceNet™

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

300V Class 2 Thick • 15 and 18 AWG Stranded TC Cond. • Individually Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)

PVC Insulation (Power) • **FPE Insulation** (Data) • **Sunlight- and Oil-resistant PVC Jacket** (Available in Gray or Red)

Thick 75°C	**3082A**	NEC: CMG, PLTC-ER CEC: CMG FT4	500† 1000 2000†	152.4 304.8 609.6	71.0 138.0 280.0	32.2 62.6 127.0	(2)15 AWG TC (19x28) 3.6Ω/M′ 11.8Ω/km (2)18 AWG TC (19x30) 6.9Ω/M′ 22.6Ω/km	100% Individual Foil + Overall 65% TC Braid 1.8Ω/M′ 5.9Ω/km	Power Pair: Red&Black Data Pair: Blue&White	.480	12.19	120	75%	12.0	39.4	.125 .500 1.000	.13 .25 .36	.43 .82 1.18
High-Flex Thick 75°C	**3082F**	NEC: CMG, PLTC-ER CEC: CMG FT4	500† 1000 2000†	152.4 304.8 609.6	72.5 140.0 284.0	32.9 63.5 128.8	(2)15 AWG TC (65x33) 3.6Ω/M′ 11.8Ω/km (2)18 AWG TC (65x36) 6.9Ω/M′ 22.6Ω/km	100% Individual Foil + Overall 65% TC Braid 1.8Ω/M′ 5.9Ω/km	Power Pair: Red&Black Data Pair: Blue&White	.480	12.19	120	75%	12.0	39.4	.125 .500 1.000	.13 .25 .36	.43 .82 1.18

†500 ft. and 2000 ft. put-ups not available in Red.
UL AWM 20201 (600V) • C(UL) AWM I/II A
18 AWG stranded (19x30) tinned copper drain wire.
Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-A

†500 ft. and 2000 ft. put-ups not available in Red.
UL AWM 20201 (600V) • C(UL) AWM I/II A
18 AWG stranded (65x36) tinned copper drain wire.
Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-A

PVC Insulation (Power) • **FPE Insulation** (Data) • **Yellow CPE Jacket**

Thick 75°C	**3083A**	NEC: CMG, PLTC CEC: CMG FT4	1000 2000	304.8 609.6	137.0 278.0	62.1 126.1	(2)15 AWG TC (19x28) 3.6Ω/M′ 11.8Ω/km (2)18 AWG TC (19x30) 6.9Ω/M′ 22.6Ω/km	100% Individual Foil + Overall 65% TC Braid 1.8Ω/M′ 5.9Ω/km	Power Pair: Red&Black Data Pair: Blue&White	.475	12.07	120	75%	12.0	39.4	.125 .500 1.000	.13 .25 .36	.43 .82 1.18

18 AWG stranded (19x30) tinned copper drain wire.
Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-A

300V Class 2 Thin • 22 and 24 AWG Stranded TC Conductors • Individ. Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)

PVC Insulation (Power) • **FPE Insulation** (Data) • **Gray Sunlight- and Oil-resistant PVC Jacket**

Thin 75°C	**3084A**	NEC: CL2 CMG CEC: CMG FT4	500 1000† 2000	152.4 304.8 609.6	22.0 47.0 96.0	10.0 21.3 43.6	(2)22 AWG TC (19x34) 17.5Ω/M′ 57.4Ω/km (2)24 AWG TC (19x36) 91.9Ω/km	100% Individual Foil + Overall 65% TC Braid 28.0Ω/M′ 10.5Ω/km	Power Pair: Red&Black Data Pair: Blue&White 3.2Ω/M′	.280	7.11	120	75%	12.0	39.4	.125* .500* 1.000*	.29* .50* .70*	.95* 1.64* 2.30*
High-Flex Thin 75°C	**3084F**	NEC: CL2 CMG CEC: CMG FT4	500 1000 2000	152.4 304.8 609.6	22.0 47.0 96.0	10.0 21.3 43.6	(2)22 AWG TC (154x44) 17.5Ω/M′ 57.4Ω/km (2)24 AWG TC (105x44) 28.0Ω/M′ 91.9Ω/km	100% Individual Foil + Overall 65% TC Braid 3.2Ω/M′ 10.5Ω/km	Power Pair: Red&Black Data Pair: Blue&White	.275	6.99	120	75%	12.0	39.4	.125* .500* 1.000*	.29* .50* .70*	.95* 1.64* 2.30*

†1000 ft. put-up also available in Red.
22 AWG stranded (19x34) tinned copper drain wire. • C(UL) AWM I/II A
Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-C

C(UL) AWM I/II A
22 AWG stranded (26x36) tinned copper drain wire.
Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-C

PVC Insulation (Power) • **FPE Insulation** (Data) • **Yellow CPE Jacket**

Thin 75°C	**3085A**	NEC: CL2 CMG CEC: CMG FT4	500 1000 2000	152.4 304.8 609.6	25.0 47.0 96.0	11.4 21.4 43.6	(2)22 AWG TC (19x34) 17.5Ω/M′ 57.4Ω/km (2)24 AWG TC (19x36) 91.9Ω/km	100% Individual Foil + Overall 65% TC Braid 3.2Ω/M′ 10.5Ω/km	Power Pair: Red&Black Data Pair: Blue&White	.280	7.11	120	75%	12.0	39.4	.125* .500* 1.000*	.29* .50* .70*	.95* 1.64* 2.30*

22 AWG stranded (19x34) tinned copper drain wire.
Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-C

DCR = DC Resistance • FPE = Foam Polyethylene • PLTC-ER = Power Limited Tray Cable - Exposed Run per 2005 NEC Article 725 • TC = Tinned Copper

*These values are Maximum Attenuation.

ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.

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Industrial Data Solutions® — Industrial Data

DeviceBus® for ODVA DeviceNet™

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Maximum Attenuation		
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

300V Class 2 ODVA Cable III • 20 and 18 AWG Stranded TC Cond. • Indiv. Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)

PVC Insulation (Power) • **FPE Insulation** (Data) • **Gray Sunlight/Oil-resistant PVC Jacket**

Mid	**7895A**	NEC:	500	152.4	41.0	18.6	(2)18 AWG TC	100%	Power Pair:	.378	9.60	—	—	—	—	—	—	—
75°C		CMG PLTC	1000	304.8	84.0	38.1	(19x30)	Individual	Red&Black									
		CEC:					6.9Ω/M′	Foil										
		CMG FT4					22.6Ω/km	+ Overall										
							(2)20 AWG TC	65%	Data Pair:									
							(19x32)	TC Braid	Blue&White			120	75%	12.0	39.4	.125	.29	.95
							10.9Ω/M′	3.2Ω/M′								.500	.50	1.64
							35.8Ω/km	10.5Ω/km								1.000	.70	2.30

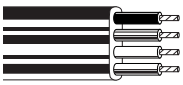


UL AWM 20201 (600V)
20 AWG stranded (19x32) tinned copper drain wire.
Meter marks on jacket to aid users in installation.

Flat • 16 AWG Stranded (19x29) Tinned Copper Conductors • Unshielded

PVC Insulation (Power) • **FPE Insulation** (Data) • **Gray Sunlight-resistant PVC Jacket**

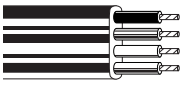
Class 2	**3082K**	NEC:	246	75.0	30.8	14.0	(4)16 AWG	Unshielded	Power Pair:	.760	10.92	—	—	—	—	—	—	—
300V 75°C		CMG CL2	656	200.0	78.7	35.7	TC		Red&Black	x	x							
		PLTC	1378	420.0	165.4	75.1	(19x29)			.210	5.33							
		CEC:					4.9Ω/M′											
		CMG FT4					16.1Ω/km											
									Data Pair:									
									Blue&White			120	75%	14.7	48.2	.125	.13	.43
																.500	.25	.82
																1.000	.40	1.31



Allen-Bradley P/N 1485 CPI-G

PVC Insulation • Black Sunlight-resistant PVC Jacket

Class 1	**3082KP**	NEC:	246	75.0	32.0	14.5	(4)16 AWG	Unshielded	Red&Black,	.760	10.92	—	—	—	—	—	—	—
Power		CMG, ITC,	656	200.0	81.3	36.9	TC		Blue&White	x	x							
600V 75°C		PLTC, TC	1378	420.0	170.9	77.6	(19x29)			.210	5.33							
		CEC:					4.9Ω/M′											
		CMG FT4					16.1Ω/km											
																.125	.13	.43
																.500	.25	.82
																1.000	.40	1.31



Allen-Bradley P/N 1485 CPI-G

DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • TC = Tinned Copper if conductor, or Tray Cable if NEC rating.

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Industrial Data Solutions® — Industrial Data

DeviceBus® for Honeywell Smart Distributed System

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
22 AWG Stranded Tinned Copper Conductors • Each Pair Individually Beldfoil® Shielded (100% Coverage) • Drain Wire																		
PVC Insulation (Power) • **FPE Insulation** (Data) • **Gray PVC Jacket**																		
UL AWM Style 2464 30V 80°C CSA AWM I/II A	**3087A**	NEC: CL2 CEC: FT1	500 1000 2000	152.4 304.8 609.6	19.0 41.0 84.0	8.6 18.6 38.1	(4)22 AWG (19x34) .030″ Tinned Copper 17.5Ω/M′ 57.4Ω/km	100% Beldfoil Each Pair	Power Pair: Blue&Brown Data Pair: Black&White	.290	7.37	— 120	— 76%	— 12.0	— 39.4	— .125 .500 1.000	— .23 .42 .60	— .76 1.38 1.97
																		
Micro Cable (Drop) 22 AWG stranded (19x34) tinned copper drain wire.																		
16 and 20 AWG Stranded Tinned Copper Conductors • Each Pair Individually Beldfoil Shielded (100% Coverage) • Drain Wire																		
PVC Insulation (Power) • **FPE Insulation** (Data) • **Gray PVC Jacket**																		
UL AWM Style 2464 30V 80°C CSA AWM I/II A	**3086A**	NEC: CL2 CEC: FT1	500 1000	152.4 304.8	43.5 88.0	19.7 39.9	(2)16 AWG TC (19x29) .067″ 3.6Ω/M′ 11.8Ω/km (2)20 AWG TC (19x32) .041″ 10.0Ω/M′ 32.8Ω/km	100% Beldfoil Each Pair	Power Pair: Blue&Brown Data Pair: Black&White	.398	10.11	— 120	— 76%	— 12.0	— 39.4	— .125 .500 1.000	— .18 .35 .47	— .59 1.15 1.54
																		
Mini Cable (Trunk) 20 AWG stranded (19x32) tinned copper drain wire.																		

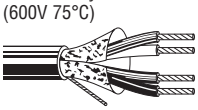
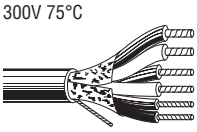
DCR = DC Resistance • FPE = Foamed Polyethylene • TC = Tinned Copper

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Industrial Data Solutions® — Industrial Data

DeviceBus® for Square D/Seriplex®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance*	
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m
18 and 22 AWG Stranded Tinned Copper Conductors • Overall 100% Beldfoil® Shield (100% Coverage) • 22 AWG (7x30) TC Drain Wire															
Foam HDPE Insulation (Power) • **Foam HDPE Insulation** (Data) • **Orange PVC Jacket**															
UL AWM Style 20201 (600V 75°C) 	**3124A**	NEC: CL2 CM CEC: CM	1000	304.8	47.0	21.3	(2)18 AWG (16x30) .040″ TC 6.8Ω/M′ 21.3Ω/km (2)22 AWG (7x30) .030″ TC 18.1Ω/M′ 59.4Ω/km	100% Overall Beldfoil Shield 10.7Ω/M′ 35.1Ω/km	Power Cdrs: Red&Black Data Cdrs: White&Green	.308	7.82	—	—	20.0	65.6
Seriplex CBL 1822-P18												—	78%	16.0	52.5
16 and 22 AWG Stranded Tinned Copper Conductors • Overall 100% Beldfoil Shield (100% Coverage) • 22 AWG (7x30) TC Drain Wire															
Foam HDPE Insulation (Power) • **Foam HDPE Insulation** (Data) • **Orange PVC Jacket**															
300V 75°C 	**3125A**	NEC: CL2 CM CEC: CM	500 1000	152.4 304.8	31.5 63.0	14.3 28.6	(2)16 AWG (26x30) .060″ TC 4.5Ω/M′ 14.8Ω/km (2)22 AWG (7x30) .030″ TC 18.1Ω/M′ 59.4Ω/km	100% Overall Beldfoil Shield 10.7Ω/M′ 35.1Ω/km	Power Cdrs: Red&Black Data Cdrs: White&Green	.368	9.35	—	—	28.0	91.9
Seriplex CBL 1622-P1												—	78%	16.0	52.5
16, 22 and 12 AWG Stranded Tinned Copper Conductors • Overall Beldfoil Shield (100% Coverage) • 22 AWG (7x30) TC Drain Wire															
Foam HDPE Insulation (Control) • **Foam HDPE Insulation** (Data) • **PVC Insulation** (Power) • **Orange PVC Jacket**															
300V 75°C 	**3126A**	NEC: CL2 CM CEC: CM	1000	304.8	112.0	50.8	(2)16 AWG (26x30) .060″ TC 4.5Ω/M′ 14.7Ω/km (2)22 AWG (7x30) .030″ TC 18.1Ω/M′ 59.4Ω/km	100% Overall Beldfoil Shield 10.7Ω/M′ 35.1Ω/km	Control Cdrs: Red&Black Data Cdrs: White&Green	.486 x .363	12.34 x 9.22	—	—	28.0	91.9
Seriplex CBL 162212-P16							(2)12 AWG (65x30) .090″ TC 1.8Ω/M′ 5.9Ω/km		Power Cdrs: Black&White, Red&White			—	78%	16.0	52.5
												—	—	—	—

DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Capacitance between one conductor and other conductors connected to shield.

Square D/Seriplex is a Square D/Schneider AEG trademark.

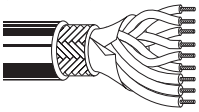
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Industrial Data Solutions® — Industrial Data

DeviceBus® for Phoenix Contact InterBus®-S



Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance*	
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m
18 and 24 AWG Stranded Tinned Copper Conductors • Overall Beldfoil® Shield (100% Coverage) + Tinned Copper Braid (90% Coverage)															
PVC Insulation (Power) • **PE Insulation** (Data) • **Green Polyurethane Jacket**															
UL AWM Style 20233 (300V 80°C)	**3119A**	—	500 1000	152.4 304.8	35.5 71.0	16.1 32.2	(3)18 AWG (7x26) .060″ TC 6.6Ω/M′ 21.7Ω/km (3pr)24 AWG (7x32) .024″ TC 23.4Ω/M′ 76.8Ω/km	100% Overall Beldfoil + 90% TC Braid 2.7Ω/M′ 8.9Ω/km	Power: Red, Blue, Green w/ Yellow Stripe Data: Pink&Gray, White&Brown, Yellow&Green	.333	8.46	— 100	— 66%	— 15.4	— 50.5
															
24 AWG Stranded Tinned Copper Conductors • Overall 100% Beldfoil Shield (100% Coverage) + Tinned Copper Braid (90% Coverage)															
Polyethylene Insulation • Green Polyurethane Jacket															
UL AWM Style 20233 (300V 80°C)	**3120A**	—	500 1000	152.4 304.8	26.0 49.0	11.8 22.2	(3pr)24 AWG (7x32) TC 26.0Ω/M′ 85.3Ω/km	100% Overall Beldfoil + 90% TC Braid 2.7Ω/M′ 8.9Ω/km	Pink&Gray, White&Brown, Yellow&Green	.277	7.04	100	66%	15.4	50.5
															

DCR = DC Resistance • PE = Polyethylene • PVC = Polyvinyl Chloride • TC = Tinned Copper

*Capacitance between one conductor and other conductors connected to shield.

InterBus-S is a Phoenix Contact trademark.

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Industrial Data Solutions® — Industrial Data

EIA Industrial RS-485 PLTC/CM

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Overall Beldfoil® Shield (100% Coverage) + TC Braid (90% Coverage) • Drain Wire▲																		
Datalene® Insulation • Black UV Resistant PVC Jacket (CPE jacket optional)																		
Oil Res II 300V 	**3105A**▼	NEC: CM PLTC CEC: CM FT1	1	See Chart (below)	500 1000 5000 †	152.4 304.8 1523.9	23.0 50.0 255.0	10.4 22.7 115.8	14.7Ω/M′ 48.2Ω/km	2.8Ω/M′ 9.2Ω/km	.284	7.21	120	78%	11.0	36.1	20.9	68.6
															For CPE jacketed version order Part No. YR44345			
	3106A	NEC: CM PLTC CEC: CM FT1	1.5◆	White/Orange, Orange/White, Blue/White	500 1000 5000 †	152.4 304.8 1523.9	27.0 51.0 260.0	12.3 23.2 118.1	14.7Ω/M′ 48.2Ω/km	2.8Ω/M′ 9.2Ω/km	.300	7.62	120	78%	11.0	36.1	20.9	68.6
															For CPE jacketed version order Part No. YR46721			
	3107A▼	NEC: CM PLTC CEC: CM FT1	2	See Chart (below)	1000 4000 5000 †	304.8 1219.2 1523.9	69.0 300.0 385.0	31.3 136.2 174.8	14.7Ω/M′ 48.2Ω/km	1.8Ω/M′ 5.9Ω/km	.356	9.04	120	78%	11.0	36.1	20.9	68.6
															For CPE jacketed version order Part No. YR46792			
	3108A	NEC: CM PLTC CEC: CM FT1	3	See Chart (below)	1000 2000	304.8 609.6	93.0 184.0	42.2 83.5	14.7Ω/M′ 48.2Ω/km	1.5Ω/M′ 4.9Ω/km	.420	10.67	120	78%	11.0	36.1	20.9	68.6
															For CPE jacketed version order Part No. YR45287			
	3109A	NEC: CM PLTC CEC: CM FT1	4	See Chart (below)	1000 2000	304.8 609.6	107.0 218.0	48.6 99.0	14.7Ω/M′ 48.2Ω/km	1.4Ω/M′ 4.6Ω/km	.420	10.67	120	78%	11.0	36.1	20.9	68.6
															For CPE jacketed version order Part No. YR44768			
AL Interlocked Armor • Datalene® Insulation • PVC Inner Jacket • Black UV Resistant PVC Outer Jacket																		
300V 	**123107A** new	NEC: CM PLTC CEC: CMG FT4	2	See Chart (below)	5000 ††	1523.9	1140.0	514.1	14.7Ω/M′ 48.2Ω/km	1.8Ω/M′ 5.9Ω/km	.650	16.51	120	78%	11.0	36.1	20.9	68.6

▼3015A and 3107A are DMX512 Type.

▲22 AWG stranded tinned copper drain wire.

▲22 AWG stranded tinned copper drain wire.

DCR = DC Resistance • TC = Tinned Copper

* Capacitance between conductors.
** Capacitance between one conductor and other conductors connected to shield.

† Final put-up length may vary -0 to +10% from length shown.
†† Final put-up length may vary ±10% for spools or reels and ±5% for UnReel® cartons from length shown.

◆All conductors are under the braid shield; one pair is under the Beldfoil shield.

Color Code Chart

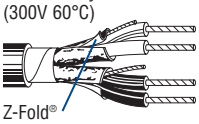
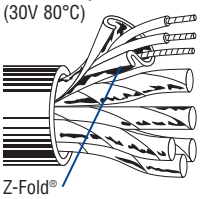
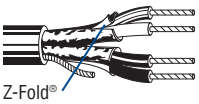
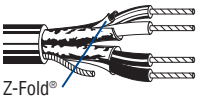
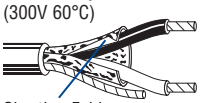
Pair No.	Color Combination
1	White/Blue Stripe Blue/White Stripe
2	White/Orange Stripe Orange/White Stripe
3	White/Green Stripe Green/White Stripe
4	White/Brown Stripe Brown/White Stripe

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Industrial Data Solutions® — Interconnect Cable

Shielded Twisted Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Beldfoil® Shielded (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (300V 60°C)	**9729**	NEC: CM CEC: CM	2	Red&Black, White&Black	100 500 1000 10000	30.5 152.4 304.8 3048.0	4.3 20.5 39.0 390.0	2.0 9.3 17.7 177.1	24.0Ω/M′ 78.7Ω/km	15.0Ω/M′ 49.3Ω/km	.266	6.76	100	76%	12.5	41.0	23.2	76.1
 Z-Fold®																		
For Plenum version of 9729, see 89729 or 82729.																		
24 AWG stranded (7x32) tinned copper drain wire.																		
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Beldfoil Shielded (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)	**8777**	NEC: CM CEC: CM	3	Red&Black, White&Black, Green&Black	100 250 U-500 500 U-1000 1000 1640 3280 5000 10000	30.5 76.2 U-152.4 152.4 U-304.8 304.8 499.9 999.7 1524.0 3048.0	4.6 11.0 21.0 21.0 41.0 42.0 67.2 137.8 210.0 450.0	2.1 5.0 9.5 9.5 18.6 19.1 30.5 62.5 95.3 204.3	15.0Ω/M′ 49.2Ω/km	10.6Ω/M′ 34.8Ω/km	.273	6.93	50	66%	30	98	55	180
 Z-Fold®																		
For Plenum versions of 8777, see 88777, 87777 or 82777.																		
22 AWG stranded (19x34) tinned copper drain wire.																		
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Beldfoil Shielded (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS 60°C	**8723**	NEC: CM CEC: CM	2	Red&Black, Green&White	100 U-500 500 U-1000 1000 1640 U-2000 2000 3280 5000 10000	30.5 U-152.4 152.4 U-304.8 304.8 499.9 U-609.6 609.6 999.7 1524.0 3048.0	2.3 10.5 10.0 20.0 20.0 32.8 40.0 40.0 65.6 95.0 200.0	1.0 4.8 4.5 9.1 9.1 14.9 18.2 18.2 29.8 43.1 90.8	16.0Ω/M′ 52.5Ω/km	14.7Ω/M′ 48.3Ω/km	.168	4.27	45	66%	35	115	62	203
 Z-Fold®																		
For Plenum versions of 8723, see 88723, 87723 or 82723.																		
24 AWG stranded (7x32) tinned copper drain wire.																		
Plenum • FEP Insulation • Red FEP Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS, Non-conduit	**88723**	NEC: CMP CEC: CMP FT6	2	Red&Black, Green&White	100 500 1000	30.5 152.4 304.8	3.4 11.0 21.0	1.5 5.0 9.5	16.0Ω/M′ 52.5Ω/km	14.7Ω/M′ 48.3Ω/km	.148	3.76	40	69%	35	115	67	220
 Z-Fold®																		
24 AWG stranded (7x32) tinned copper drain wire.																		
18 AWG Stranded (16x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2092 (300V 60°C)	**8760**	NEC: CM CEC: CM	1	Black &Clear	250 U-500 500 U-1000 1000 2000 5000 10000	76.2 U-152.4 152.4 U-304.8 304.8 609.6 1524.0 3048.0	6.8 13.0 13.0 26.0 26.0 50.0 135.0 260.0	3.1 5.9 5.9 11.8 11.8 22.7 61.3 118.0	—	—	.222	5.64	—	—	24	79	44	144
 Shorting Fold																		
For Plenum versions of 8760, see 88760, 87760 or 82760.																		
20 AWG stranded (7x28) tinned copper drain wire.																		

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • PVC = Polyvinyl Chloride • TC = Tinned Copper

* Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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VFD (Variable Frequency Drive) Cable

1000V UL Flexible Motor Supply Cable

Description	Part No.	AWG	Cond. Stranding	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Maximum Pull Tension Lbs.	Maximum Pull Tension N	Minimum Bend Radius Inch	Minimum Bend Radius mm
4-cond. (3) Stranded TC Circuit Conductors + (1) Ground* • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage) • TC Drain Wire*													
XLPE Insulation (Circuit Condrs) • **PVC Insulation** (Ground) • **Black Sunlight- and Oil-resistant PVC Jacket**													
1000V UL Flexible Motor Supply Cable 600V UL 1277 Type TC-ER per 2005 NEC Article 336 1000V CSA AWM I/II A/B FT4 90°C Wet/Dry	**29500**	16	26x30	250†	76.2	46.2	21.0	.53	13.46	128	568	3.9	99.06
				500†	152.4	93.0	42.2						
	All Allen-Bradley Series 160 and 1305 drives.			1000†	304.8	182.0	82.6						
				6000†	1828.8	1080.0	490.3						
	29501	14	41x30	250†	76.2	59.7	27.1	.55	13.97	212	942	4.5	114.30
				500†	152.4	120.0	54.5						
	Allen-Bradley 1336F(S)-BRF05 through BRF100			1000†	304.8	233.0	105.8						
				5000†	1524.0	1215.0	551.6						
	29502	12	65x30	250†	76.2	69.8	31.7	.60	15.24	336	1495	4.9	124.46
				500†	152.4	151.5	68.8						
				1000†	304.8	298.0	135.3						
	Allen-Bradley 1336F(S)-BRF150, BRF200			5000†	1524.0	1570.0	712.8						
	29503	10	105x30	250†	76.2	91.3	41.4	.66	16.76	525	2335	5.4	137.16
				500†	152.4	194.5	88.3						
				1000†	304.8	375.0	170.3						
	Allen-Bradley 1336F(S)-B015			5000†	1524.0	2025.0	919.4						
	29504	8	7x19x29	250†	76.2	158.5	72.0	.89	22.61	1328	5906	7.3	185.42
				500†	152.4	332.0	150.7						
				1000†	304.8	660.0	299.6						
	Allen-Bradley 1336F(S)-B020			5000†	1524.0	3135.0	1423.3						
	29505	6	7x19x27	250†	76.2	221.3	100.5	.99	25.15	2048	9109	8.0	203.20
				1000†	304.8	906.0	411.3						
	Allen-Bradley 1336F(S)-B025, B030			3500†	1066.8	3206.0	1455.5						
	29506	4	7x19x25	250†	76.2	319.5	145.1	1.15	29.21	3152	14021	9.2	233.68
				1000†	304.8	1231.0	558.9						
	Allen-Bradley 1336F(S)-BX040, B040			3000†	914.4	3843.0	1744.7						
Color Code: ICEA Method 4 (Black and Numbered); Green/Yellow Ground	**29507**	2	7x19x23	250†	76.2	437.8	198.7	1.29	32.77	4872	21672	10.5	266.70
				500†	152.4	875.5	397.5						
UL Direct Burial. XHHW-2, RHW-2 rated circuit conductors.				1000†	304.8	1711.0	776.8						
	Allen-Bradley 1336F(S)-B050, BX060, B060			2000†	609.6	3682.0	1671.6						
Three (3) Stranded TC Circuit Conductors + (3) Symmetrical Bare Copper Grounds • (2) Spiral Copper Tape Shields (100% Coverage)													
XLPE Insulation (Circuit Condrs) • **Black Sunlight- and Oil-resistant PVC Jacket**													
1000V UL Flexible Motor Supply Cable 600V UL 1277 Type TC-ER per 2005 NEC Article 336 600V CSA AWM I/II A/B FT4 90°C Wet/Dry	**29528** new	1	7x19x22	250 ††	76.2	398.8	181.0	1.20	30.48	2650	11788	12.0	304.8
				1000 ††	304.8	1642.0	746.0						
				3000 †	1524.0	4779.0	2169.7						
	29529 new	1/0	7x19x21	250 ††	76.2	525.8	238.7	1.29	32.77	3537	15733	12.9	327.7
				1000 ††	304.8	2050.0	930.7						
				2000 †	609.6	3954.0	1795.1						
	29530 new	2/0	7x19x20	250 ††	76.2	602.0	273.3	1.40	35.56	4200	18682	14.0	355.6
				1000 ††	304.8	2362.0	1072.4						
				2000 †	609.6	4744.0	2153.8						
	29531 new	3/0	7x19x19	250 ††	76.2	699.5	317.6	1.52	38.61	5025	22352	15.2	386.1
				1000 ††	304.8	2708.0	1229.4						
Color Code: ICEA Method 4 (Black and Numbered)				3000 †	1524.0	5436.0	2467.9						
	29532 new	4/0	7x19x18	250 ††	76.2	881.0	400.0	1.68	42.67	6670	29670	16.8	426.7
UL Direct Burial. XHHW-2 circuit conductors.				500 ††	152.4	1873.0	850.3						
				1500 †	457.2	5619.0	2551.0						

TC = Tinned Copper • TC-ER = Tray Cable - Exposed Run per 2005 NEC Article 336 • XLPE = Cross-linked Polyethylene

*Ground(s) and drain wire(s) are same AWG as circuit conductors.

†Final put-up length may vary ±10% from length shown.
††Final put-up length may vary ±5% from length shown.

Encoder Cables

Belden also offers the following standard cables for encoder applications. Encoder cables help feed information to the microprocessor regarding both the speed and the position of the rotor.

Part No.	Pairs	AWG
8790 (Power Supply)	1	18
9729	2	24
9730, 89730	3	24
9728	4	24
9892	4	20

See Index for page numbers.

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Belden Infinity® Flexible Automation Cable

Overview and Application Guide

Belden Infinity is a complete line of control, data, video, and power cables specifically designed to handle the rigorous speeds and near-constant motion encountered in automated equipment such as robots, pick and place machines, automatic handling systems, multi-axis machine tools, and conveyor systems.

When the application demands highly flexible cables offering exceptional cable life and performance, specify Belden Infinity.

Belden Infinity Means More Performance And Longer Life

Reduced Cable Memory — Belden Infinity's unique design and neutralized cabling, results in cables that are relaxed, with almost no memory.

Greater Flex Life — Belden Infinity cables offer superior flexibility and are able to handle the vigorous motions and high speeds encountered in automated equipment.

Greater System Uptime — Belden Infinity cables combine specialized manufacturing techniques with precision copper stranding and rugged insulation and jacketing compounds to maximize flex life and reliability.

No Talc Problems — Unlike the potentially harmful talc used in other cables, Belden's non-toxic, non-irritating slipper compound facilitates flexing and also complies with OSHA regulations. It's safer for employees and operators and is less likely to contaminate solder joints or mechanical compounds.

CE Conformity — All Belden Infinity cables are CE marked per the Conformité Européenne low voltage directive, allowing trade of product in Europe.

Custom Designs — Other designs available upon request.

Product Series Descriptions

- **C-TC+** — The C-TC+ series is designed for C-track and extreme flex applications up to 9 million flex cycles*. This series utilizes super fine stranding and some of the tightest lay lengths allowed by UL, providing outstanding flex life.
- **FCC** — The FCC series is a cost effective alternative for C-track and moderate flexing applications rated up to 1 million flex cycles*.
- **Flex Data Cables** — Belden Infinity Flex Data cables are designed for industrial applications where precise data transmission is combined with high-flexing. These cables are ideal for effective operation of computer controlled equipment or other automated production processes, even in harsh environments.
- **Flex Vision** — Belden Infinity Vision cables are continuous flex video cables designed for machine vision applications. They are ideal for motion-controlled video and with inspection and measurement equipment.

Application Guide

Belden Infinity Series	C-Track Systems	Multi-Axis Machining	Robotics	Automated Assembly Systems	Material Handling Systems	Pick & Place Systems	Automated Storage Retrieval	Gantry Systems	Machine Vision	Motion-Controlled Video	Inspection & Measure Equip.	Festooning	Servo	Power
FCC Oil & abrasion resistant 600V UL & CSA rated Life Expectancy: Over 1 million flex cycles*	●	●		●	●	●	●	●			●	●	●	●
C-TC+ Oil & abrasion resistant 600V UL & CSA rated Life Expectancy: Over 9 million flex cycles*	★	★	●	★	★	★	★	★			★	★	★	★
DATA Oil & abrasion resistant 300V UL & CSA rated Life Expectancy: Over 1 million flex cycles*	●	●	●	●	●	●	●	●			●	●		
VISION 30V UL & CSA rated Life Expectancy: Over 1 million flex cycles*	●	●		●	●	●	●	●	★	✚	✚	●		

● Good ✚ Better ★ Best

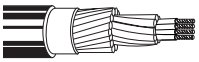
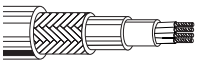
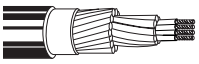
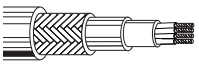
*Based on proper installation techniques in a C-track cable guide.

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Belden Infinity® Flexible Automation Cable

600V C-TC+ Control Cables for Extreme Flexing
(9 Million Flex Cycles*)

Description	Part No.	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Maximum Pull Tension	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	Lbs.	N
20 AWG Stranded (74x38) Bare Copper Conductors • Unshielded • Color Code: Red w/numbers + Green/Yellow ground														
PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7101A**	3	250 † 500 † 1000 †	76.2 152.4 304.8	11.0 24.5 47.0	5.0 11.1 21.3	.020	.51	.045	1.14	.275	6.99	45	200
	**7102A**	4	250 † 500 † 1000 †	76.2 152.4 304.8	13.3 27.5 53.0	6.0 12.5 24.1	.020	.51	.045	1.14	.295	7.49	59	262
	7105A	9	250 † 500 † 1000 †	76.2 152.4 304.8	29.8 52.0 104.0	13.5 23.6 47.2	.020	.51	.055	1.40	.435	11.05	130	578
	7106A	12	250 † 500 † 1000 †	76.2 152.4 304.8	32.3 66.5 134.0	14.6 30.2 60.8	.020	.51	.055	1.40	.455	11.56	178	792
	7107A	18	250 † 500 †	76.2 152.4	50.0 101.0	22.7 45.9	.020	.51	.065	1.65	.545	13.84	260	1156
Temp Rating: -40° to 90°C (-5° to 90°C flexing)	**7108A**	25	250 † 500 †	76.2 152.4	71.5 143.5	32.5 65.2	.020	.51	.080	2.03	.665	16.89	370	1645
20 AWG Stranded (74x38) Bare Copper Conductors • TC Braid Shield (85% Coverage) • Color Code: Red w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Orange Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7106AS**	12	250 † 500 †	76.2 152.4	57.5 116.0	26.1 52.7	.020	.51	Inner: .025 Outer: .055	 .64 1.40	.535	13.59	194	863
														
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
18 AWG Stranded (114x38) Bare Copper Conductors • Unshielded • Color Code: Red w/numbers + Green/Yellow ground														
PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7110A**	3	500 † 1000 †	76.2 304.8	26.0 50.0	11.8 22.7	.020	.51	.035	.89	.300	7.62	69	307
	**7113A**	7	250 † 500 † 1000 †	76.2 152.4 304.8	29.0 55.5 111.0	13.2 25.2 50.4	.020	.51	.060	1.52	.438	11.13	155	689
	7115A	12	250 † 500 †	76.2 152.4	40.3 84.5	18.3 38.4	.020	.51	.060	1.52	.513	13.03	270	1201
	7116A	18	250 † 500 †	76.2 152.4	63.0 126.0	28.6 57.2	.020	.51	.060	1.52	.598	15.19	400	1779
Temp Rating: -40° to 90°C (-5° to 90°C flexing)	**7117A**	25	250 † 500 †	76.2 152.4	89.3 179.0	40.5 81.3	.020	.51	.083	2.11	.744	18.90	570	2535
18 AWG Stranded (114x38) Bare Copper Conductors • TC Braid Shield (85% Coverage) • Color Code: Red w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Orange Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7111AS**	4	250 † 500 †	76.2 152.4	4.0 60.5	1.8 27.5	.020	.51	Inner: .025 Outer: .050	 .64 1.27	.405	10.29	84	373
	**7115AS**	12	250 † 500 †	76.2 152.4	72.8 144.5	33.1 65.6	.020	.51	Inner: .025 Outer: .065	 .64 1.65	.600	15.24	252	1121

PVC = Polyvinyl Chloride • TC = Tinned Copper

*Based on proper installation techniques in a C-track cable guide.

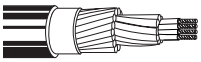
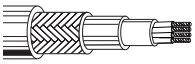
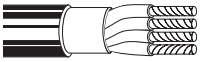
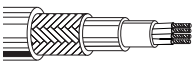
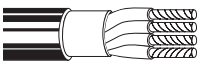
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Belden Infinity® Flexible Automation Cable

600V C-TC+ Control Cables for Extreme Flexing
(9 Million Flex Cycles*)

Description	Part No.	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Maximum Pull Tension	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	Lbs.	N
16 AWG Stranded (190x38) Bare Copper Conductors • Unshielded • Color Code: Red w/numbers + Green/Yellow ground														
PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7122A**	3	250 † 500 † 1000 †	76.2 152.4 304.8	16.3 43.5 84.0	7.4 19.8 38.1	.020	.51	.045	1.14	.325	8.26	114	507
	**7125A**	7	250 † 500 † 1000 †	76.2 152.4 304.8	38.5 73.5 148.0	17.5 33.4 67.2	.020	.51	.060	1.52	.480	12.19	260	1156
	7126A	9	250 † 1000 †	76.2 304.8	49.3 195.0	22.4 88.5	.020	.51	.060	1.52	.545	13.84	340	1512
	7127A	12	250 † 500 † 1000 †	76.2 152.4 304.8	53.3 122.5 243.0	24.2 55.6 110.3	.020	.51	.060	1.52	.570	14.48	450	2001
	7128A	18	250 † 500 †	76.2 152.4	85.3 172.0	38.7 78.1	.020	.51	.060	1.52	.670	17.02	680	3025
Temp Rating: -40° to 90°C (-5° to 90°C flexing)	**7129A**	25	250 † 500 †	76.2 152.4	124.5 247.5	56.5 112.4	.020	.51	.080	2.03	.820	20.83	950	4226
16 AWG Stranded (190x38) BC Conductors • TC Braid Shield (85% Coverage) • Color Code: Red w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Orange Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7123AS**	4	250 † 500 †	76.2 152.4	40.8 78.0	18.5 35.4	.020	.51	Inner: .025 Outer: .040	.64 1.02	.420	10.67	154	685
														
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
14 AWG Stranded (266x38) Bare Copper Conductors • Unshielded • Color Code: Red w/numbers + Green/Yellow ground														
PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7136A**	4	250 † 500 †	76.2 152.4	39.0 74.5	17.7 33.8	.025	.64	.050	1.27	.430	10.92	212	943
														
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
14 AWG Stranded (266x38) BC Conductors • TC Braid Shield (85% Coverage) • Color Code: Red w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Orange Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7136AS**	4	250 † 500 †	76.2 152.4	74.0 145.0	33.6 65.8	.025	.64	Inner: .025 Outer: .045	.64 1.14	.500	12.70	208	925
														
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
12 AWG Stranded (413x38) Bare Copper Conductors • Unshielded • Color Code: Red w/numbers + Green/Yellow ground														
PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7145A**	4	250 † 500 †	76.2 152.4	72.5 146.0	32.9 66.3	.030	.76	.075	1.91	.545	13.84	274	1218
														
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														

BC = Bare Copper • TC = Tinned Copper

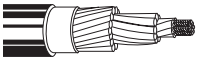
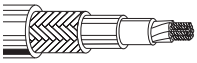
*Based on proper installation techniques in a C-track cable guide.
†Final put-up length may vary ±10% from length shown.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Belden Infinity® Flexible Automation Cable

600V FCC Control Cables for Moderate Flexing
(1 Million Flex Cycles*)

Description	Part No.	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Maximum Pull Tension	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	Lbs.	N
20 AWG Stranded (10x30) Bare Copper Conductors • Unshielded • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7400A**	2	250 † 500 † 1000 †	76.2 152.4 304.8	11.0 25.0 44.0	5.0 11.4 20.0	.022	.56	.040	1.02	.240	6.10	26	116
	**7401A**	3	250 † 500 † 1000 †	76.2 152.4 304.8	13.0 30.0 59.0	5.9 13.6 26.8	.022	.56	.040	1.02	.250	6.35	39	173
	7402A	4	250 † 500 † 1000 †	76.2 152.4 304.8	15.0 33.0 64.0	6.8 15.0 29.1	.022	.56	.040	1.02	.275	6.99	52	231
	7403A	5	250 † 500 † 1000 †	76.2 152.4 304.8	17.5 38.0 72.0	8.0 17.3 32.7	.022	.56	.040	1.02	.300	7.62	65	289
	7404A	7	250 † 500 † 1000 †	76.2 152.4 304.8	22.0 44.5 86.0	10.0 20.2 39.0	.022	.56	.040	1.02	.345	8.76	91	405
	7405A	9	250 † 500 † 1000 †	76.2 152.4 304.8	29.5 71.5 144.0	13.4 32.5 65.4	.022	.56	.053	1.35	.410	10.41	117	520
	7406A	12	250 † 500 † 1000 †	76.2 152.4 304.8	30.8 88.5 177.0	14.0 40.2 80.4	.022	.56	.053	1.35	.420	10.67	156	693
	7407A	18	250 † 500 †	76.2 152.4	53.5 104.0	24.3 47.2	.022	.56	.053	1.35	.500	12.70	234	1041
Temp Rating: -40° to 90°C (-5° to 90°C flexing)	**7408A**	25	250 † 500 †	76.2 152.4	65.3 130.5	29.6 59.3	.022	.56	.065	1.65	.615	15.62	325	1445
20 AWG Stranded (10x30) BC Conductors • TC Braid Shield (85% Coverage) • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7401AS**	3	500 †	152.4	54.0	24.5	.022	.56	Inner: .025 Outer: .035	.64 .89	.320	8.13	45	200
	**7402AS**	4	250 † 500 †	76.2 152.4	32.8 64.0	14.9 29.1	.022	.56	Inner: .025 Outer: .035	.64 .89	.330	8.38	52	231
	7403AS	5	250 † 500 †	76.2 152.4	34.8 68.0	15.8 30.9	.022	.56	Inner: .025 Outer: .035	.64 .89	.370	9.40	65	289
	7404AS	7	250 † 500 †	76.2 152.4	37.8 71.5	17.1 32.5	.022	.56	Inner: .025 Outer: .040	.64 1.02	.420	10.67	91	405
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														

BC = Bare Copper • TC = Tinned Copper

*Based on proper installation techniques in a C-track cable guide.

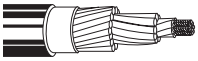
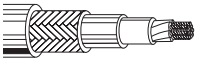
†Final put-up length may vary ±10% from length shown.

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Belden Infinity® Flexible Automation Cable

600V FCC Control Cables for Moderate Flexing
(1 Million Flex Cycles*)

Description	Part No.	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Maximum Pull Tension	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	Lbs.	N
18 AWG Stranded (16x30) Bare Copper Conductors • Unshielded • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7409A**	2	250 † 500 † 1000 †	76.2 152.4 304.8	13.3 26.5 51.0	6.0 12.0 23.2	.022	.56	.040	1.02	.264	6.71	50	222
	**7410A**	3	250 † 500 † 1000 †	76.2 152.4 304.8	16.3 25.0 48.0	7.4 11.4 21.8	.022	.56	.040	1.02	.280	7.11	74	329
	7411A	4	250 † 500 † 1000 †	76.2 152.4 304.8	18.8 31.0 58.0	8.5 14.1 26.3	.022	.56	.040	1.02	.305	7.75	98	436
	7412A	5	250 † 500 † 1000 †	76.2 152.4 304.8	21.8 36.0 69.0	9.9 16.3 31.3	.022	.56	.040	1.02	.330	8.38	122	542
	7413A	7	250 † 500 † 1000 †	76.2 152.4 304.8	27.5 46.0 120.0	12.5 20.9 54.5	.022	.56	.040	1.02	.385	9.78	171	760
	7414A	9	250 † 500 † 1000 †	76.2 152.4 304.8	36.5 87.0 174.0	16.6 39.5 79.0	.022	.56	.050	1.27	.452	11.48	220	978
	7415A	12	250 † 500 † 1000 †	76.2 152.4 304.8	40.0 75.5 161.0	18.2 34.3 73.1	.022	.56	.050	1.27	.475	12.07	292	1298
	7416A	18	250 † 500 †	76.2 152.4	55.8 112.5	25.3 51.1	.022	.56	.050	1.27	.560	14.22	440	1957
	7417A	25	250 † 500 †	76.2 152.4	74.3 149.0	33.7 67.6	.022	.56	.072	1.83	.696	17.68	520	2313
	7418A	34	250 † 500 †	76.2 152.4	111.3 215.5	50.5 97.8	.022	.56	.072	1.83	.788	20.02	830	3692
Temp Rating: -40° to 90°C (-5° to 90°C flexing)	**7419A**	41	500 †	152.4	295.0	133.9	.022	.56	.075	1.91	.860	21.84	1001	4453
	7420A	50	250 †	76.2	186.5	84.7	.022	.56	.083	2.11	.940	23.88	1220	5427
18 AWG Stranded (16x30) BC Conductors • TC Braid Shield (85% Coverage) • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7411AS**	4	250 † 500 †	76.2 152.4	29.0 56.5	13.2 25.7	.022	.56	Inner: .025 .64 Outer: .032 .81		.365	9.27	83	369
	**7413AS**	7	250 † 500 †	76.2 152.4	37.5 74.0	17.0 33.6	.022	.56	Inner: .025 .64 Outer: .035 .89		.450	11.43	145	645
	7415AS	12	250 † 500 †	76.2 152.4	61.5 124.0	27.9 56.3	.022	.56	Inner: .025 .64 Outer: .045 1.14		.550	13.97	230	1023
	7416AS	18	250 † 500 †	76.2 152.4	83.3 169.0	37.8 76.7	.022	.56	Inner: .025 .64 Outer: .055 1.40		.650	16.51	374	1663
	7417AS	25	250 † 500 †	76.2 152.4	113.8 228.0	51.6 103.5	.022	.56	Inner: .025 .64 Outer: .060 1.52		.765	19.43	520	2313
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														

BC = Bare Copper • TC = Tinned Copper

*Based on proper installation techniques in a C-track cable guide.

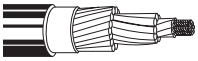
†Final put-up length may vary ±10% from length shown.

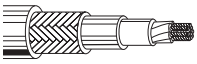
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Belden Infinity® Flexible Automation Cable

600V FCC Control Cables for Moderate Flexing
(1 Million Flex Cycles*)

Description	Part No.	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Maximum Pull Tension	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	Lbs.	N
16 AWG Stranded (26x30) Bare Copper Conductors • Unshielded • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7421A**	2	250 † 500 † 1000 †	76.2 152.4 304.8	15.0 35.0 68.0	6.8 15.9 30.9	.022	.56	.040	1.02	.290	7.37	70	311
	**7422A**	3	250 † 500 † 1000 †	76.2 152.4 304.8	18.8 34.5 65.0	8.5 15.7 29.5	.022	.56	.040	1.02	.305	7.75	105	467
	7423A	4	250 † 500 † 1000 †	76.2 152.4 304.8	22.5 41.5 80.0	10.2 18.8 36.3	.022	.56	.040	1.02	.330	8.38	140	623
	7424A	5	250 † 500 † 1000 †	76.2 152.4 304.8	27.5 49.5 96.0	12.5 22.5 43.6	.022	.56	.040	1.02	.360	9.14	175	778
	7425A	7	250 † 500 † 1000 †	76.2 152.4 304.8	35.0 64.0 129.0	15.9 29.1 58.6	.022	.56	.040	1.02	.425	10.80	236	1050
	7426A	9	250 † 500 † 1000 †	76.2 152.4 304.8	50.5 95.0 190.0	22.9 43.1 86.3	.022	.56	.060	1.52	.540	13.72	304	1352
	7427A	12	250 † 500 † 1000 †	76.2 152.4 304.8	55.3 114.0 220.0	25.1 51.8 100.0	.022	.56	.065	1.65	.565	14.35	405	1801
	7428A	18	250 † 500 †	76.2 152.4	79.0 158.0	35.9 71.7	.022	.56	.065	1.65	.650	16.51	608	2705
	7429A	25	250 † 500 †	76.2 152.4	109.0 218.5	49.5 99.2	.022	.56	.060	1.52	.750	19.05	875	3892
Temp Rating: -40° to 90°C (-5° to 90°C flexing)	**7430A**	34	250 †	76.2	171.3	77.7	.022	.56	.075	1.91	.878	22.30	1145	5093

Description	Part No.	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Maximum Pull Tension	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	Lbs.	N
16 AWG Stranded (26x30) BC Conductors • TC Braid Shield (85% Coverage) • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7423AS**	4	250 † 500 †	76.2 152.4	36.0 68.0	16.3 30.9	.022	.56	Inner: .025 Outer: .035	.64 .89	.400	10.16	140	623
	**7427AS**	12	250 † 500 †	76.2 152.4	81.8 164.5	37.1 74.7	.022	.56	Inner: .025 Outer: .060	.64 1.52	.630	16.00	420	1868
	7428AS	18	250 † 500 †	76.2 152.4	119.0 238.5	54.1 108.3	.022	.56	Inner: .025 Outer: .070	.64 1.78	.740	18.80	630	2802
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														

BC = Bare Copper • TC = Tinned Copper

*Based on proper installation techniques in a C-track cable guide.

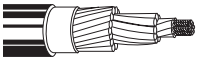
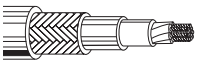
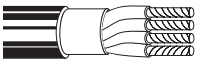
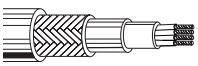
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Description	Part No.	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Maximum Pull Tension	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	Lbs.	N
14 AWG Stranded (41x30) Bare Copper Conductors • Unshielded • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7434A**	2	250 † 500 † 1000 †	76.2 152.4 304.8	34.0 66.5 92.0	15.5 30.2 41.8	.023	.58	.045	1.14	.335	8.51	201	894
	**7435A**	3	250 † 500 † 1000 †	76.2 152.4 304.8	39.8 78.5 98.0	18.1 35.6 44.5	.023	.58	.045	1.14	.350	8.89	201	894
	7436A	4	250 † 500 † 1000 †	76.2 152.4 304.8	49.3 95.0 131.0	22.4 43.1 59.5	.023	.58	.050	1.27	.395	10.03	201	894
	7438A	7	500 †	152.4	150.5	68.3	.023	.58	.060	1.52	.525	13.33	373	1659
	7439A	9	250 † 500 †	76.2 152.4	110.8 223.0	50.3 101.2	.023	.58	.070	1.78	.620	15.75	480	2135
	7440A	12	250 † 500 †	76.2 152.4	142.5 285.5	64.7 129.6	.023	.58	.075	1.91	.660	16.76	640	2847
Temp Rating: -40° to 90°C (-5° to 90°C flexing)	**7442A**	25	250 †	76.2	223.8	101.7	.023	.58	.090	2.29	.930	23.62	1337	5947
14 AWG Stranded (41x30) BC Conductors • TC Braid Shield (85% Coverage) • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7436AS**	4	250 † 500 †	76.2 152.4	49.3 95.0	22.4 43.1	.023	.58	Inner: .025 Outer: .055	.64 1.40	.482	12.24	212	943
	**7438AS**	7	250 † 500 †	76.2 152.4	74.8 150.5	33.9 68.3	.023	.58	Inner: .025 Outer: .060	.64 1.52	.563	14.30	371	1650
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
12 AWG Stranded (65x30) Bare Copper Conductors • Unshielded • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7444A**	3	250 † 500 †	76.2 152.4	53.5 103.5	24.3 47.0	.028	.71	.060	1.52	.450	11.43	253	1125
	**7445A**	4	250 † 500 †	76.2 152.4	63.5 124.0	28.8 56.3	.028	.71	.070	1.78	.505	12.83	338	1503
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
12 AWG Stranded (65x30) BC Conductors • TC Braid Shield (85% Coverage) • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7445AS**	4	250 † 500 †	76.2 152.4	85.8 171.5	38.9 77.9	.028	.71	Inner: .030 Outer: .070	.76 1.78	.580	14.73	338	1503
														
Temp Rating: -40° to 90°C (-5° to 90°C flexing)														

BC = Bare Copper • TC = Tinned Copper

*Based on proper installation techniques in a C-track cable guide.

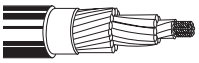
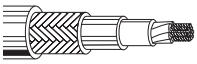
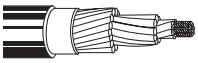
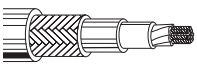
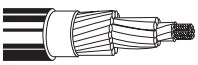
†Final put-up length may vary ±10% from length shown.

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

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Belden Infinity® Flexible Automation Cable

600V FCC Control Cables for Moderate Flexing
(1 Million Flex Cycles*)

Description	Part No.	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Maximum Pull Tension	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	Lbs.	N
10 AWG Stranded (105x30) Bare Copper Conductors • Unshielded (Color Code: Black w/numbers + Green/Yellow ground)														
PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7447A**	4	250 † 500 †	76.2 152.4	70.8 142.5	32.1 64.7	.030	.76	.070	1.78	.570	14.48	672	2989
 Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
10 AWG Stranded (105x30) BC Conductors • TC Braid Shield (85% Coverage) • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7447AS**	4	250 † 500 †	76.2 152.4	92.8 185.5	42.2 84.3	.030	.76	Inner: .035 Outer: .065	 .89 1.65	.660	16.76	546	2429
 Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
8 AWG Stranded (168x30) Bare Copper Conductors • Unshielded • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7450A**	4	250 † 500 †	76.2 152.4	113.8 228.0	51.6 103.5	.045	1.14	.070	1.78	.715	18.16	920	4092
 Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
8 AWG Stranded (168x30) BC Conductors • TC Braid Shield (85% Coverage) • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7450AS**	4	250 † 500 †	76.2 152.4	141.3 281.0	64.1 127.6	.045	1.14	Inner: .040 Outer: .065	 1.02 1.65	.815	20.70	872	3879
 Temp Rating: -40° to 90°C (-5° to 90°C flexing)														
6 AWG Stranded (266x30) Bare Copper Conductors • Unshielded • Color Code: Black w/numbers + Green/Yellow ground														
PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket														
UL AWM Style 2587 (600V 90°C) CSA AWM I/II A/B	**7453A**	4	250 †	76.2	185.0	84.0	.060	1.52	.085	2.16	.925	23.50	1472	6548
 Temp Rating: -40° to 90°C (-5° to 90°C flexing)														

BC = Bare Copper • TC = Tinned Copper

*Based on proper installation techniques in a C-track cable guide.

†Final put-up length may vary ±10% from length shown.

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Belden Infinity® Flexible Automation Cable

300V Flex Data Cables
(1 Million Flex Cycles*)

Description	Part No.	No. of Pairs	UL NEC/ C(UL) CEC Type	RS Type	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Maximum Capacitance		Nom. Imped. (Ω)
						Ft.	m	Lbs.	kg	Inch	mm	pF/Ft.	pF/m	
Flex Data • 24 AWG Stranded (41x40) BC Condrs. • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)**														
Foam Polyethylene Insulation with Skin • Green Oil-resistant PVC Jacket														
300V 60°C 	**7200A**	1	NEC: CM CEC: CM	232 485	White, Blue	500 1000	152.4 304.8	17.0 38.0	7.7 17.3	.240	6.10	15.0	49.2	120
	7201A	2	NEC: CM CEC: CM	232 485	See Color Code Chart (below)	500 1000	152.4 304.8	31.0 60.0	14.1 27.2	.322	8.18	15.0	49.2	120
	7202A	3	NEC: CM CEC: CM	232 485	See Color Code Chart (below)	500 1000	152.4 304.8	33.5 68.0	15.2 30.9	.347	8.81	15.0	49.2	120
	7203A	4	NEC: CM CEC: CM	232 485	See Color Code Chart (below)	500 1000	152.4 304.8	39.0 79.0	17.7 35.9	.362	9.20	15.0	49.2	120
	7205A	1	NEC: CM CEC: CM	232 422	White, Blue	500 1000	152.4 304.8	17.5 38.0	7.9 17.3	.232	5.89	14.0	45.9	100
	7206A	1	NEC: CM CEC: CM	232 485	White, Blue	1000	304.8	59.0	26.8	.302	7.67	10.0	32.8	150
Temp Rating: -20° to 60°C (-5° to 60°C flexing)														

BC = Bare Copper • TC = Tinned Copper

*Based on proper installation techniques in a C-track cable guide.

**24 AWG stranded (41x40) tinned copper drain wire.

Color Codes: Flex Data

Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe

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Belden Infinity® Flexible Automation Cable

75 Ohm Flex Vision Coax Cables
(1 Million Flex Cycles*)

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal Core OD		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg	Conductor	Shield	Inch	mm	Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Sub-Mini Type • 30 AWG Stranded (7x38) Tinned Cadmium Bronze Conductor • Tinned Copper "French Braid" Shield (95% Coverage)																			
Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
UL AWM Style 1354 30V 80°C CSA AWM I/II A/B	**7500A**	CEC: FT1	250† 500† 1000†	76.2 152.4 304.8	3.0 5.0 9.0	1.4 2.3 4.1	108.0Ω/M′ 354.3Ω/km	13.3Ω/M′ 43.6Ω/km	.056	1.42	.110	2.79	75	78%	16.7	54.8	2.2 5 10 30 50 100	.9 1.4 2.0 3.4 4.4 6.4	2.95 4.59 6.56 11.16 14.44 21.00
																			
Mini Type • 25 AWG Stranded (19x38) Bare Copper Conductor • Tinned Copper "French Braid" Shield (95% Coverage)																			
Foam Polyethylene Insulation • Matte Blue Belflex Jacket																			
UL AWM Style 1354 30V 80°C CSA AWM I/II A/B	**7501A**	CEC: FT1	500† 1000†	152.4 304.8	7.5 14.0	3.4 6.4	35.0Ω/M′ 114.8Ω/km	9.1Ω/M′ 29.9Ω/km	.090	2.29	.146	3.71	75	77%	17.7	58.1	2.2 5 10 30 50 100	.6 .9 1.3 2.2 2.9 4.2	1.97 2.95 4.27 7.22 9.52 13.78
																			
RG-59 Type • 22 AWG Stranded (19x34) Bare Copper Conductor • Tinned Copper "French Braid" Shield (95% Coverage)																			
Foam Polyethylene Insulation • Matte Blue Belflex Jacket																			
UL AWM Style 1354 30V 80°C CSA AWM I/II A/B	**7502A**	CEC: FT1	250† 500† 1000†	76.2 152.4 304.8	10.5 15.0 34.0	4.8 6.8 15.4	13.4Ω/M′ 44.0Ω/km	6.4Ω/M′ 21.0Ω/km	.146	3.71	.242	6.15	75	79%	18.0	59.1	2.2 5 10 30 50 100	.4 .5 .8 1.4 1.8 2.7	1.31 1.64 2.63 4.59 5.91 8.86
																			
RG-6/U Type • 20 AWG Stranded (7x15x40) Bare Copper Conductor • Tinned Copper "French Braid" Shield (95% Coverage)																			
Foam Polyethylene Insulation • Matte Blue Belflex Jacket																			
UL AWM Style 1354 30V 80°C CSA AWM I/II A/B	**7503A**	CEC: FT1	250† 500† 1000†	76.2 152.4 304.8	12.0 18.0 40.0	5.5 8.2 18.2	8.1Ω/M′ 26.6Ω/km	11.0Ω/M′ 36.1Ω/km	.185	4.70	.275	6.99	75	80%	17.3	56.8	2.2 5 10 30 50 100	.3 .4 .6 1.1 1.5 2.2	0.98 1.31 1.97 3.61 4.92 7.22
																			
RG-11 Type • 16 AWG Stranded (7x37x40) Bare Copper Conductor • Tinned Copper "French Braid" Shield (95% Coverage)																			
Foam Polyethylene Insulation • Matte Blue Belflex Jacket																			
UL AWM Style 1354 30V 80°C CSA AWM I/II A/B	**7504A**	CEC: FT1	1000†	304.8	84.0	38.1	3.5Ω/M′ 11.5Ω/km	3.6Ω/M′ 11.8Ω/km	.285	7.24	.405	10.29	75	81%	17.3	56.8	2.2 5 10 30 50 100	.2 .3 .4 .8 1.0 1.5	0.66 0.98 1.31 2.63 3.28 4.92
																			

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

*Based on proper installation techniques in a C-track cable guide.

†Final put-up length may vary ±10% from length shown.

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UL Instrumentation Cable

300V Power-Limited Tray Cables — Overview

Construction

Soft annealed bare or tinned copper with PVC flame retardant insulation and jacket. Other insulation and jacket options are available (see table below). Communication wire included on all multi-pair/multi-triad 1000 and 3000 series part numbers, 22 AWG (7x30) bare copper, orange PVC insulation. Nylon rip cord included in all PVC/PVC instrumentation cables.

Other Construction Options:

UL Listed for PLTC	
Insulation/Jacket	**Max. Temp Rating**
XLPE/PVC	90°C
XLPE/CPE	90°C
PVC/PVC	105°C
PVC/CPE	105°C
PE/PVC	75°C
FPE/PVC	75°C
TPE/TPE	105°C
XLPE/Haloarrest®	90°C

Armoring Capabilities

Belden also has the capability to protect electronic, instrumentation and control cables with interlocking or continuous armor and smooth or corrugated protective metal tapes.

To Specify Part Number

1	2	3456
Overall Jacket Type	Armor Type	Core Trade Number

Overall Jacket

Code	Material
1	PVC
3	CPE
4	TPE
5	HDPE
6	Oil Res II
7	Haloarrest® I

Armor

Code	Material
2	Aluminum Interlock
3	Steel Interlock
8	Continuously Corrugated Aluminum

Application

Cable jackets are resistant to sunlight, moisture and vapor penetration. PVC/PVC constructions, with 3 conductors or more and 20 AWG or larger, are suitable for direct burial.

Unshielded

Twisted non-shielded pairs and triads provide a minimal OD allowing greater tray and conduit fill. Non-shielded instrument pairs may be utilized when recommended by the instrument manufacturer and used in a metallic conduit.

Overall Shield

Recommended for use in instrumentation applications where signals are transmitted in excess of 100 millivolts except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness.

Individually Shielded and Overall Shielded

Individually shielded pairs or triads with an overall shield are recommended for use in instrumentation applications where optimum noise rejection is required. Individual pair/triad shields are fully isolated from each other and contain a separate drain wire for grounding, to provide maximum protection from crosstalk and common mode interference. Cables with an overall shield provide additional electrostatic noise protection.

Specifications

- UL Subject 13
- UL Subject 2250
- NEC Article 725 Class 2 and Class 3 Circuits
- NEC Type PLTC Listed, which is approved for cable tray use in Class 1, Division 2, hazardous areas and non-hazardous areas, cable trays, raceways, conduit and supported by messenger wires.
- Sunlight-resistant.
- Oil-resistant per UL Class 43
- NEC Type ITC per Article 727. ITC cables may carry up to 5 amps at 150V, which is significantly greater than that allowed for PLTC only cables. ITC cables may also be installed in specific applications, per the NEC, in addition to those allowed for PLTC.
- UL 1685 (UL 1581) Vertical Tray Flame Test comparable to IEEE 383-1974 (70,000 BTU/hr.) Flame Test.
- PVC/PVC constructions are CMG, FT4, IEEE 1202 and IEEE 383-2003 rated, and meet ICEA T-29-520 Flame Test.
- Design options — call 1-800-BELDEN-1 or 1-800-BELDEN-3.

PLTC-ER

As an option, Belden offers all PVC insulated, PVC jacketed instrumentation cables, and several other insulation and jackets, with a PLTC-ER (Exposed Run) rating, formerly referred to as Open Wiring.

Per NEC Article 725, a PLTC-ER rated cable may be installed in an industrial establishment between a cable tray and the utilization equipment or device. A PLTC-ER rated cable must meet the crush and impact requirements of UL Type MC cable By eliminating the need for metal conduit and/or armor, using a PLTC-ER rated cable results in savings in both installation and maintenance.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1 or 1-800-BELDEN-3.

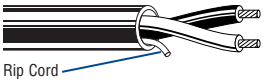
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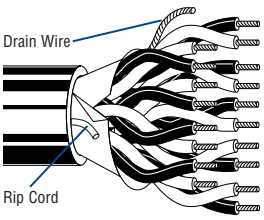
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UL Instrumentation Cable

300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

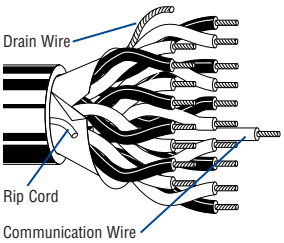
Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
22 AWG Pairs Stranded (7x30) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9407**	1	E2	U-500 U-1000	U-152.4 U-304.8	10.0 19.0	4.3 8.2	.037	.94	.198	5.03	19	84	2.00	50.80
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9322**	1	E2	U-500 U-1000	U-152.4 U-304.8	11.0 22.0	5.0 10.0	.037	.94	.201	5.10	28	124	2.00	50.80
	9512	2	E2	500 1000	152.4 304.8	22.0 42.0	10.0 19.1	.042	1.07	.310	7.82	46	204	3.00	76.20
	9513	3	E2	500 1000	152.4 304.8	26.5 51.0	11.6 23.2	.042	1.07	.324	8.23	63	280	3.25	82.55
	9514	4	E2	500 1000	152.4 304.8	33.0 67.0	14.8 30.5	.042	1.07	.356	9.04	80	355	3.50	88.90
	9516	6	E2	500 1000	152.4 304.8	45.0 89.0	20.4 40.4	.053	1.35	.418	10.62	118	524	4.25	107.95
	9520	9	E2	500 1000	152.4 304.8	64.5 121.0	29.3 55.0	.053	1.35	.482	12.29	172	765	4.75	120.65
	9521	11	E2	500 1000	152.4 304.8	73.0 147.0	32.7 66.4	.053	1.35	.506	12.85	200	889	5.35	135.89
	9524	15	E2	500 1000	152.4 304.8	89.5 178.0	40.7 80.9	.053	1.35	.594	15.09	280	1245	6.00	152.40
	9526	19	E2	500 1000	152.4 304.8	114.5 224.0	52.0 101.8	.063	1.60	.644	16.36	350	1557	6.33	160.78
	9527	27	E2	500 1000 †	152.4 304.8	156.5 321.0	71.1 145.9	.063	1.60	.763	19.38	500	2224	7.50	190.50





22 AWG Pairs Stranded (7x30) Bare Copper Conductors* • Twisted Pairs

Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**3000A****	2	E1	Bulk††	Bulk	—	—	.043	1.09	.310	7.87	46	204	3.00	76.20
	3004A**	4	E1	Bulk††	Bulk	—	—	.042	1.07	.357	9.01	80	355	3.50	88.90
	3006A**	8	E1	Bulk††	Bulk	—	—	.053	1.35	.450	11.43	172	765	4.75	120.65
	3008A**	12	E1	Bulk††	Bulk	—	—	.053	1.35	.536	13.61	210	934	5.00	127.00
	3010A**	16	E1	Bulk††	Bulk	—	—	.053	1.35	.594	15.09	290	1290	6.00	152.40
	3012A**	24	E1	Bulk††	Bulk	—	—	.065	1.65	.749	19.02	440	1957	7.50	190.50
	3014A**	50	E1	Bulk††	Bulk	—	—	.075	1.91	1.017	25.80	915	4070	9.50	241.30



PVC = Polyvinyl Chloride

*For tinned copper conductors, order with B suffix.
**For Exposed Run rated cable (3000 series only), order with E suffix, e.g. 3000AE.

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

E1, E2 = Refer to Industrial Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

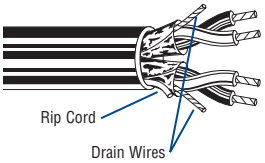
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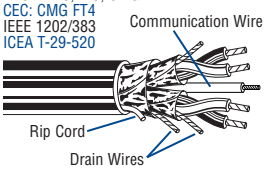
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

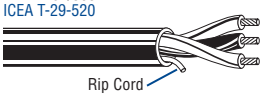
UL Instrumentation Cable

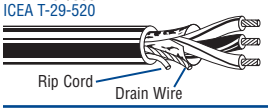
300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

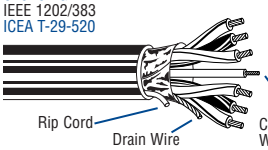
Description	Part No.	No. of Pairs/ Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
22 AWG Pairs Stranded (7x30) Tinned Copper Conductors • Twisted Pairs															
Individually Shielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9328**	2	E2	500 1000	152.4 304.8	23.5 46.0	10.2 20.9	.042	1.07	.323	8.20	54	240	3.00	76.20
	9329	3	E2	500 1000	152.4 304.8	29.5 60.0	13.4 27.3	.042	1.07	.341	8.66	54	240	3.50	88.90
	9330	4	E2	500 1000	152.4 304.8	39.0 75.0	17.7 34.0	.042	1.07	.372	9.45	110	489	3.50	88.90
	9331	6	E2	500 1000	152.4 304.8	55.0 111.0	24.5 50.4	.053	1.35	.457	11.61	101	449	4.33	109.98
	9332	9	E2	500 1000	152.4 304.8	75.0 145.0	34.1 65.9	.053	1.35	.530	13.46	160	711	5.00	127.00
	9333	11	E2	500 1000	152.4 304.8	89.0 177.0	40.5 80.5	.053	1.35	.592	15.04	160	711	5.50	139.70
	9335	19	E2	500 1000	152.4 304.8	141.5 287.0	64.3 130.5	.063	1.60	.711	18.06	264	1174	6.50	165.10
22 AWG Pairs Stranded (7x30) Bare Copper Conductors* • Twisted Pairs															
Individually Shielded + Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**3001A**†	2	E1	Bulk††	Bulk	—	—	.042	1.07	.324	8.23	54	240	3.25	82.55
	3005A†	4	E1	Bulk††	Bulk	—	—	.043	1.09	.360	9.14	115	511	3.50	88.90
	3007A†	8	E1	Bulk††	Bulk	—	—	.053	1.35	.497	12.62	250	1112	5.25	133.35
	3009A†	12	E1	Bulk††	Bulk	—	—	.053	1.35	.570	14.48	300	1334	5.75	146.05
	3011A†	16	E1	Bulk††	Bulk	—	—	.064	1.63	.674	17.12	350	1557	6.25	158.75
	3013A†	24	E1	Bulk††	Bulk	—	—	.065	1.65	.800	20.32	540	2402	8.00	203.20
	3015A†	50	E1	Bulk††	Bulk	—	—	.075	1.91	1.050	26.67	1330	5916	10.50	266.70
22 AWG Triads Stranded (7x30) Tinned Copper Conductors • Twisted Triads															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9491**	1	E1	U-500 U-1000	U-152.4 U-304.8	12.5 23.0	5.7 10.4	.037	.94	.208	5.28	29	129	2.00	50.80
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9363**	1	E1	U-500 U-1000	U-152.4 U-304.8	13.5 26.0	6.1 11.8	.037	.94	.208	5.28	29	129	2.00	50.80
22 AWG Triads Stranded (7x30) Bare Copper Conductors* • Twisted Triads															
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**3002A**	2	E1	Bulk††	Bulk	—	—	.043	1.09	.330	8.38	62	275	3.50	88.90
Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**3003A**	2	E1	Bulk††	Bulk	—	—	.043	1.09	.330	8.38	82	364	3.25	82.55



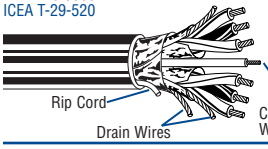








For Exposed Run rated cable, order 3002AE



For Exposed Run rated cable, order 3003AE

*For tinned copper conductors, order with B suffix.
†For Exposed Run rated 3000 series cables, order with "E" suffix, e.g. 3001AE.

E1, E2 = Refer to Technical Information section for color code. Alternate color coding available upon request. Multiple pair or triad cables have each pair/triad numbered for ease of identification.
††Bulk = Check length available for specific construction.

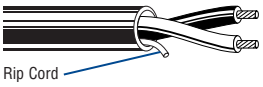
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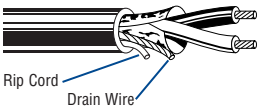
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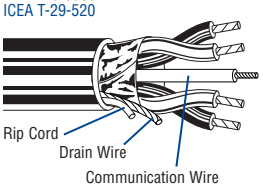
UL Instrumentation Cable

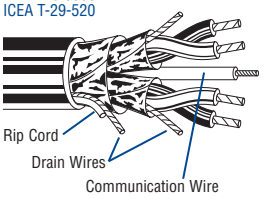
300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Maximum Pull Tension Lbs.	Maximum Pull Tension N	Minimum Bend Radius Inch	Minimum Bend Radius mm
20 AWG Pairs Stranded (19x32) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9408**	1	E2	U-500 U-1000	U-152.4 U-304.8	12.0 23.0	5.5 10.4	.037	.94	.214	5.44	31	138	2.00	50.80
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9320**	1	E2	U-500 U-1000	U-152.4 U-304.8	14.5 28.0	6.6 12.7	.037	.94	.217	5.51	40	178	2.00	50.80
20 AWG Pairs Stranded (7x28) Bare Copper Conductors • Twisted Pairs															
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1033A**	1	E1	1000 10000 †	304.8 3048.0	30.0 270.0	13.6 122.5	.037	.94	.213	5.41	42	187	2.25	57.15
	3016A	2	E1	Bulk ††	Bulk	—	—	.042	1.07	.332	8.43	92	409	3.75	95.25
	1056A	4	E1	10000 †	3048.0	820.0	372.0	.053	1.35	.408	10.36	135	601	4.25	107.95
	1057A	8	E1	10000 †	3048.0	1410.0	640.2	.053	1.35	.472	11.99	247	1099	5.00	127.00
	1058A	12	E1	7500 †	2286.0	1455.0	660.0	.053	1.35	.564	14.33	359	1597	6.00	152.40
	1059A	16	E1	5000 †	1524.0	1275.0	578.9	.064	1.63	.649	16.48	232	1032	6.50	165.10
	1060A	24	E1	5000 †	1524.0	1735.0	787.7	.064	1.63	.786	19.96	695	3092	8.25	209.55
	1061A	36	E1	2500 †	762.0	1300.0	590.2	.074	1.88	.960	24.38	1031	4587	10.00	254.00
	1062A	50	E1	2500 †	762.0	1825.0	827.8	.074	1.88	1.117	28.37	1423	6330	11.50	292.10
Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1075A**	2	E1	10000 †	3048.0	650.0	294.8	.042	1.07	.337	8.56	97	432	3.75	95.25
	1076A	4	E1	7500 †	2286.0	787.5	357.5	.053	1.35	.411	10.44	171	761	4.50	114.30
	1077A	8	E1	7500 †	2286.0	1297.5	588.6	.053	1.35	.514	13.06	320	1424	5.50	139.70
	1078A	12	E1	7500 †	2286.0	1942.5	881.1	.064	1.63	.637	16.18	468	2082	6.75	171.45
	1079A	16	E1	5000 †	1524.0	1555.0	705.4	.064	1.63	.704	17.88	617	2745	7.50	190.50
	1091A	20	E1	Bulk ††	Bulk	—	—	.064	1.63	.780	19.81	765	3403	8.25	209.55
	1080A	24	E1	2500 †	762.0	1142.5	518.2	.074	1.88	.863	21.92	914	4066	9.00	228.60
	1081A	36	E1	2000 †	609.6	1436.0	651.9	.074	1.88	1.035	26.29	1359	6046	10.50	266.70
	1082A	50	E1	2000 †	609.6	1858.0	843.5	.074	1.88	1.215	30.86	1878	8355	12.75	323.85









F-R = Flame-retardant

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

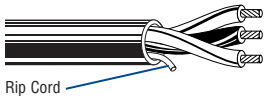
UL Instrumentation Cable

300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

20 AWG Triads Stranded (19x32) Tinned Copper Conductors • Twisted Triads

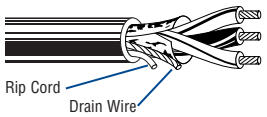
Unshielded • PVC Insulation • Chrome PVC Jacket

Description	Part No.	No. of Triads	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Maximum Pull Tension Lbs.	Maximum Pull Tension N	Minimum Bend Radius Inch	Minimum Bend Radius mm
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9492**	1	E1	U-500 U-1000	U-152.4 U-304.8	15.5 29.0	7.0 13.2	.037	.94	.225	5.72	46	205	2.25	57.15



Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

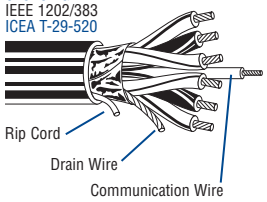
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9364**	1	E1	U-500 U-1000	U-152.4 U-304.8	17.0 32.0	7.7 14.5	.037	.94	.228	5.79	46	205	2.25	57.15



20 AWG Triads Stranded (7x28) Bare Copper Conductors • Twisted Triads

Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)

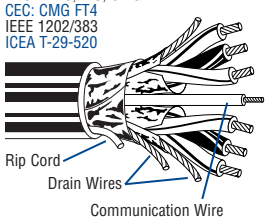
NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



1526A	1	E1	10000 †	3048.0	310.0	140.6	.037	.94	.215	5.46	42	187	2.20	55.88
3017A	2	E1	Bulk ††	Bulk	—	—	.055	1.40	.360	9.14	97	432	3.60	91.44
3020A	4	E1	Bulk ††	Bulk	—	—	.055	1.40	.470	11.94	174	774	4.75	120.65
3021A	8	E1	Bulk ††	Bulk	—	—	.055	1.40	.560	14.22	330	1468	5.00	127.00
3022A	12	E1	Bulk ††	Bulk	—	—	.066	1.68	.710	18.03	485	2158	7.00	177.80
3023A	16	E1	Bulk ††	Bulk	—	—	.064	1.63	.821	20.85	600	2669	7.75	196.85
3024A	24	E1	Bulk ††	Bulk	—	—	.074	1.88	1.031	26.19	920	4093	9.25	234.95

Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



3018A	2	E1	Bulk ††	Bulk	—	—	.055	1.40	.372	9.45	102	454	3.75	95.25
1083A	4	E1	10000 †	3048.0	1410.8	640.9	.053	1.35	.451	11.46	228	1014	4.50	114.30
1084A	8	E1	7500 †	2286.0	1755.0	796.1	.064	1.63	.575	10.81	432	1922	5.75	146.05
1085A	12	E1	5000 †	1524.0	1735.0	787.0	.064	1.63	.714	18.14	636	2829	7.15	181.61
1092A	16	E1	Bulk ††	Bulk	—	—	.064	1.63	.793	20.14	841	3741	7.90	200.66
1086A	24	E1	2500 †	762.0	1602.5	726.9	.074	1.88	.992	25.20	1250	5561	9.90	251.46
3067A	36	E1	Bulk ††	Bulk	—	—	.074	1.88	1.292	32.82	1875	6273	13.00	330.20

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

E1 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

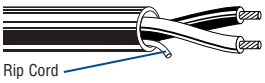
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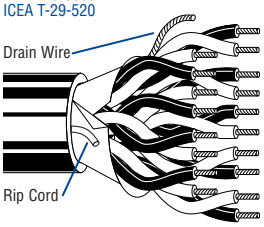
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

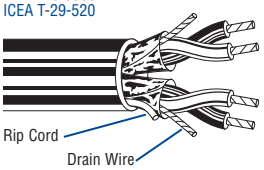
UL Instrumentation Cable

300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
18 AWG Pairs Stranded (19x30) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9409**	1	E2	U-500 U-1000	U-152.4 U-304.8	15.0 28.0	6.8 12.7	.037	.94	.230	5.84	49	218	2.25	57.15
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9318**	1	E2	U-500 U-1000	U-152.4 U-304.8	17.5 33.0	7.9 15.0	.037	.94	.233	5.92	60	267	2.25	57.15
	9552	2	E2	500 1000	152.4 304.8	35.5 69.0	16.1 31.4	.042	1.07	.368	9.34	65	289	3.70	93.98
	9553	3	E2	500 1000	152.4 304.8	49.5 98.0	22.0 49.4	.053	1.35	.411	10.44	145	645	4.10	104.14
	9554	4	E2	500 1000	152.4 304.8	57.0 112.0	25.8 50.8	.053	1.35	.447	11.35	187	832	4.50	114.30
	9556	6	E2	500 1000	152.4 304.8	78.5 153.0	35.7 69.5	.053	1.35	.497	12.62	270	1201	5.00	127.00
	9559	9	E2	500 1000	152.4 304.8	108.0 215.0	49.0 97.6	.053	1.35	.579	14.71	395	1757	5.80	147.32
	9563	11	E2	500 1000	152.4 304.8	133.0 270.0	60.4 122.5	.063	1.60	.665	16.89	478	2126	6.75	171.45
	9565	15	E2	500 1000	152.4 304.8	169.0 342.0	76.8 155.5	.063	1.60	.739	18.77	640	2847	7.50	190.50
Individually Shielded (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9368**	2	E2	500 1000	152.4 304.8	37.5 73.0	17.0 33.2	.042	1.07	.378	9.60	125	556	3.75	95.25
	9369	3	E2	500 1000	152.4 304.8	55.0 109.0	25.0 49.5	.053	1.35	.423	10.74	220	979	4.25	107.95
	3029A	4	E1	Bulk †	Bulk	—	—	.053	1.35	.461	11.71	296	1317	4.50	114.30
	9388	4	E2	500 1000	152.4 304.8	71.5 135.0	32.5 61.4	.053	1.35	.461	11.71	296	1317	4.60	116.84
	9389	6	E2	500 1000	152.4 304.8	97.0 190.0	44.1 86.4	.053	1.35	.538	13.67	440	1957	5.25	133.35
	9390	9	E2	500 1000	152.4 304.8	137.5 270.0	63.0 123.6	.064	1.63	.652	16.56	666	2963	6.50	165.10
	9391	11	E2	500 1000	152.4 304.8	158.5 321.0	72.0 145.9	.064	1.63	.729	18.52	815	3626	7.25	184.15
	9392	15	E2	500 1000	152.4 304.8	209.0 428.0	95.0 194.5	.064	1.63	.808	20.52	1100	4893	8.00	203.20







E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Bulk = Check length available for specific construction.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

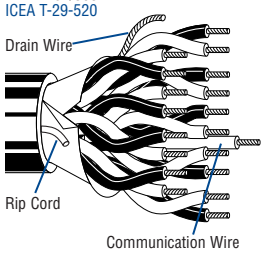
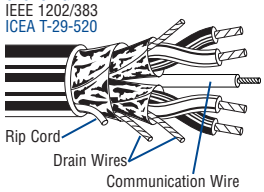
**For 1000 and 3000 Series cables only.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

UL Instrumentation Cable

300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
18 AWG Pairs Stranded (7x26) Bare Copper Conductors • Twisted Pairs															
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1032A**	1	E1	1000 10000 †	304.8 3048.0	38.0 380.0	17.2 172.5	.037	.94	.233	5.92	67	298	2.50	63.50
 Drain Wire Rip Cord Communication Wire	**3025A**	2	E1	10000 †	3048.0	760.0	344.7	.042	1.07	.375	9.53	121	538	3.50	88.90
	1529A	3	E1	7500 †	2286.0	735.0	333.4	.053	1.35	.415	10.54	165	734	4.25	107.95
	1466A	4	E1	7500 †	2286.0	892.5	404.8	.053	1.35	.452	11.48	211	939	4.50	114.30
	1467A	8	E1	7500 †	2286.0	1477.5	670.8	.053	1.35	.523	13.28	390	1735	5.50	139.70
	1468A	12	E1	5000 †	1524.0	1375.0	624.3	.064	1.63	.673	17.09	560	2491	6.75	171.45
	3034A	16	E1	Bulk ††	Bulk	—	—	.066	1.68	.713	18.11	640	2847	7.25	184.15
	1471A	24	E1	2500 †	762.0	1292.5	586.3	.074	1.88	.932	23.67	1105	4916	9.25	234.95
	1472A	36	E1	1250 †	381.0	910.0	413.1	.074	1.88	1.062	26.97	1644	7313	10.50	266.70
	3041A	50	E1	Bulk ††	Bulk	—	—	.074	1.88	1.240	31.50	2240	10049	12.75	323.85
Individually Shielded + Overall Beldfoil (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1474A**	2	E1	7500 †	2286.0	720.0	326.9	.053	1.35	.408	10.16	149	663	4.00	101.60
 Rip Cord Drain Wires Communication Wire	**1475A**	4	E1	7500 †	2286.0	1065.0	483.1	.053	1.35	.468	11.89	267	1188	4.75	120.65
	1476A	8	E1	5000 †	1524.0	1185.0	538.0	.053	1.35	.594	15.10	501	2229	6.00	152.40
	1477A	12	E1	5000 †	1524.0	1740.0	789.3	.064	1.63	.737	18.72	779	3465	7.25	184.15
	3035A	16	E1	Bulk ††	Bulk	—	—	.064	1.63	.836	21.20	725	3225	8.50	215.90
	1480A	24	E1	2500 † 5000 †	762.0 1524.0	1712.5 3390.0	777.5 1539.1	.074	1.88	1.019	25.88	1443	6419	10.25	260.35
	1481A	36	E1	Bulk ††	Bulk	—	—	.074	1.88	1.163	29.54	2148	9556	11.75	298.45
	3042A	50	E1	Bulk ††	Bulk	—	—	.084	2.13	1.389	35.28	2935	13057	14.00	355.60

E1 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

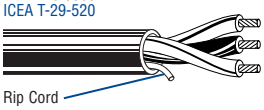
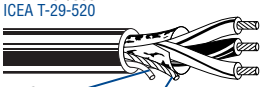
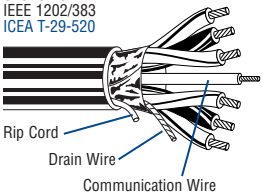
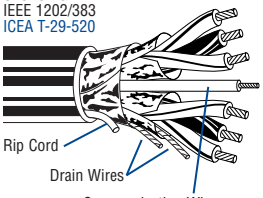
**For 1000 and 3000 Series cables only.

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UL Instrumentation Cable

300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
18 AWG Triads Stranded (19x30) Tinned Copper Conductors • Twisted Triads															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9493**	1	E1	U-500 U-1000	U-152.4 U-304.8	20.0 38.0	9.1 17.2	.037	.94	.242	6.15	62	276	2.25	57.15
 Rip Cord															
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9365**	1	E1	U-500 U-1000	U-152.4 U-304.8	22.0 43.0	10.0 19.5	.037	.94	.245	6.22	74	329	2.50	63.50
 Rip Cord Drain Wire															
18 AWG Triads Stranded (7x26) Bare Copper Conductors • Twisted Triads															
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1036A**	1	E1	1000 10000 †	304.8 3048.0	43.0 430.0	19.5 195.1	.037	.94	.236	5.99	90	400	2.40	60.96
 Rip Cord Drain Wire Communication Wire	**3027A**	2	E1	Bulk ††	Bulk	—	—	.055	1.40	.420	10.67	165	734	4.25	107.95
	3030A	4	E1	Bulk ††	Bulk	—	—	.055	1.40	.521	13.20	240	1068	4.50	114.30
	3032A	8	E1	Bulk ††	Bulk	—	—	.064	1.63	.580	14.70	501	2229	5.75	146.05
	3036A	16	E1	Bulk ††	Bulk	—	—	.077	1.96	.900	22.86	1050	4671	9.00	228.60
	3038A	24	E1	Bulk ††	Bulk	—	—	.077	1.96	1.020	25.91	1450	6450	10.25	260.35
Individually Shielded + Overall Beldfoil (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**3028A**	2	E1	Bulk ††	Bulk	—	—	.055	1.40	.450	11.43	175	779	4.50	114.30
 Rip Cord Drain Wires Communication Wire	**3031A**	4	E1	Bulk ††	Bulk	—	—	.053	1.35	.533	13.50	255	1134	5.25	133.35
	3033A	8	E1	Bulk ††	Bulk	—	—	.064	1.63	.654	16.50	560	2491	6.50	165.10
	3068A	12	E1	Bulk ††	Bulk	—	—	.063	1.60	.840	21.30	800	3559	8.50	215.90
	3037A	16	E1	Bulk ††	Bulk	—	—	.074	1.88	.974	24.70	1320	5872	10.50	266.70
	3039A	24	E1	Bulk ††	Bulk	—	—	.074	1.88	1.200	30.50	1620	7207	11.25	285.75

E1 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

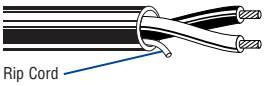
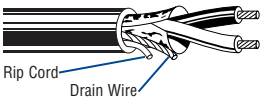
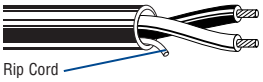
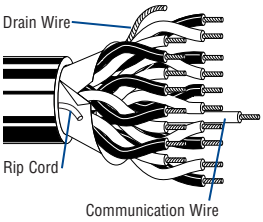
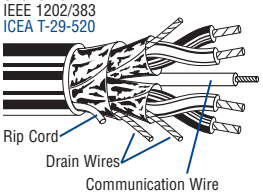
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UL Instrumentation Cable

300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
16 AWG Pairs Stranded (19x29) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9410**	1	E2	U-500 U-1000	U-152.4 U-304.8	18.5 36.0	8.4 16.3	.037	.94	.254	6.45	78	347	2.50	63.50
 Rip Cord															
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9316**	1	E2	U-500 U-1000	U-152.4 U-304.8	21.5 41.0	9.8 18.6	.037	.94	.256	6.50	90	400	2.50	63.50
 Rip Cord Drain Wire															
16 AWG Pairs Stranded (7x24) Bare Copper Conductors • Twisted Pairs															
Unshielded • PVC Insulation • Black PVC Jacket (See chart below for other insulation and jacket options)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1035A**	1	E1	1000 10000 †	304.8 3048.0	40.0 400.0	18.1 181.4	.037	.94	.254	6.45	71	318	2.50	63.50
 Rip Cord															
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1030A**	1	E1	1000 10000 †	304.8 3048.0	46.0 480.0	20.9 217.7	.037	.94	.257	6.53	94	418	2.50	63.50
	3043A	2	E1	Bulk ††	Bulk	—	—	.053	1.35	.437	11.10	83	369	4.50	114.30
	1528A	3	E1	7500 †	2286.0	967.5	438.9	.053	1.35	.457	11.61	250	1112	4.75	120.65
	1484A	4	E1	7500 †	2286.0	1200.0	544.8	.053	1.35	.495	12.57	330	1468	5.00	127.00
	1485A	8	E1	7500 †	2286.0	2010.0	911.7	.053	1.35	.597	15.16	616	2740	6.00	152.40
	1486A	12	E1	5000 †	1524.0	1965.0	892.1	.064	1.63	.741	18.80	892	3968	7.50	190.50
	3050A	16	E1	Bulk ††	Bulk	—	—	.064	1.63	.831	21.10	661	2940	8.50	215.90
	1489A	24	E1	1250 †	381.0	923.8	419.4	.074	1.88	1.032	26.20	1749	7780	10.50	266.70
	1490A	36	E1	1250 †	381.0	1313.8	596.4	.074	1.88	1.178	29.80	2606	11592	11.75	298.45
	3056A	50	E1	Bulk ††	Bulk	—	—	.088	2.24	1.550	39.37	3615	16082	15.50	393.70
 Drain Wire Rip Cord Communication Wire															
Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (Options below)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1492A**	2	E1	7500 †	2286.0	885.0	401.8	.053	1.35	.450	11.43	232	1032	4.50	114.30
	1493A	4	E1	7500 †	2286.0	1387.5	629.4	.055	1.40	.512	13.11	420	1868	5.00	127.00
	1494A	8	E1	5000 †	1524.0	1640.0	743.9	.066	1.68	.687	17.50	795	3537	7.00	177.80
	1495A	12	E1	2500 †	762.0	1202.5	545.5	.066	1.68	.822	20.73	1170	5205	8.25	209.55
	3051A	16	E1	Bulk ††	Bulk	—	—	.074	1.88	.936	23.77	661	2940	10.00	254.00
	1498A	24	E1	5000 †	1524.0	4340.0	1968.6	.074	1.88	1.149	29.18	2296	10214	11.50	292.10
	1499A	36	E1	Bulk ††	Bulk	—	—	.084	2.13	1.334	33.88	3167	14088	13.50	342.90
 Rip Cord Drain Wires Communication Wire	**3057A**	50	E1	Bulk ††	Bulk	—	—	.088	2.24	1.600	40.64	2066	9190	16.00	406.40

E1, E2 = Refer to Technical Information section for color code.
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†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

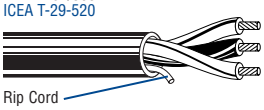
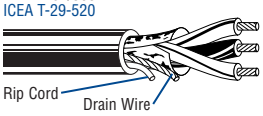
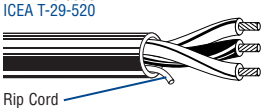
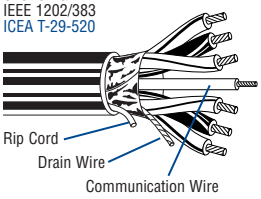
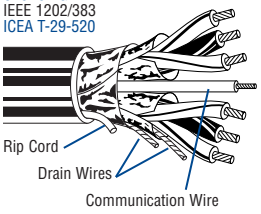
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UL Instrumentation Cable

300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
16 AWG Triads Stranded (19x29) Tinned Copper Conductors • Twisted Triads															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9494**	1	E1	U-500 U-1000	U-152.4 U-304.8	24.5 48.0	11.1 21.8	.037	.94	.268	6.81	91	405	2.75	69.85
															
Overall Beldfoil® Shield (100% Coverage)• PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**9366**	1	E1	U-500 U-1000	U-152.4 U-304.8	27.5 54.0	12.5 24.5	.037	.94	.270	6.86	116	516	2.75	69.85
															
16 AWG Triads Stranded (7x24) Bare Copper Conductors • Twisted Triads															
Unshielded • PVC Insulation • Black PVC Jacket (See chart below for other options)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1034A**	1	E1	1000 4000 †	304.8 1219.2	51.0 208.0	23.2 94.4	.037	.94	.268	6.81	107	476	2.75	69.85
															
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**1031A**	1	E1	1000 10000 †	304.8 3048.0	58.0 610.0	26.4 276.7	.037	.94	.271	6.88	130	578	2.75	69.85
	3044A	2	E1	Bulk ††	Bulk	—	—	.053	1.35	.483	12.27	259	1152	4.75	120.65
	3046A	4	E1	Bulk ††	Bulk	—	—	.053	1.35	.570	14.40	473	2104	5.75	146.05
	3048A	8	E1	Bulk ††	Bulk	—	—	.063	1.60	.760	19.30	902	4013	7.50	190.50
	3052A	16	E1	Bulk ††	Bulk	—	—	.074	1.88	1.032	26.21	1758	7821	11.25	285.75
	3054A	24	E1	Bulk ††	Bulk	—	—	.074	1.88	1.180	29.90	2615	11633	11.75	298.45
															
Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (Options below)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	**3045A**	2	E1	Bulk ††	Bulk	—	—	.053	1.35	.506	12.80	304	1352	5.00	127.00
	3047A	4	E1	Bulk ††	Bulk	—	—	.053	1.35	.569	14.45	563	2505	6.00	152.40
	3049A	8	E1	Bulk ††	Bulk	—	—	.064	1.63	.764	19.41	1081	4809	8.00	203.20
	3069A	12	E1	Bulk ††	Bulk	—	—	.074	1.88	.998	25.35	1500	6673	10.00	254.00
	3053A	16	E1	Bulk ††	Bulk	—	—	.074	1.88	1.150	29.20	2117	9418	11.50	292.10
	3055A	24	E1	Bulk ††	Bulk	—	—	.084	2.13	1.320	33.53	3153	14026	13.25	336.55
															

E1 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

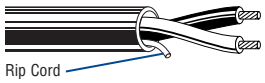
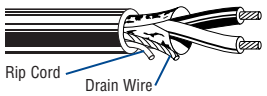
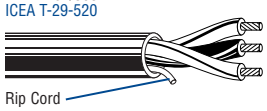
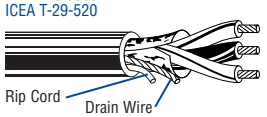
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UL Instrumentation Cable

300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/ Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
14 AWG Pairs Stranded (42x30) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	**9411**	1	E2	U-500 1000	U-152.4 304.8	28.0 60.0	12.7 27.3	.042	1.07	.322	8.18	124	552	3.25	82.55
															
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	**9314**	1	E2	U-500 1000	U-152.4 304.8	32.5 66.0	14.7 29.9	.042	1.07	.324	8.23	140	623	3.25	82.55
															
14 AWG Triads Stranded (42x30) Tinned Copper Conductors • Twisted Triads															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	**9495**	1	E1	500 1000	152.4 304.8	43.5 86.0	19.7 39.0	.042	1.07	.340	8.64	186	827	3.50	88.90
															
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	**9367**	1	E1	500 1000	152.4 304.8	43.5 88.0	19.7 40.0	.042	1.07	.343	8.71	188	836	3.50	88.90
															

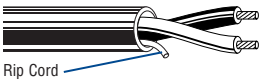
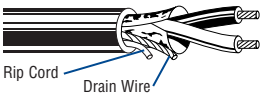
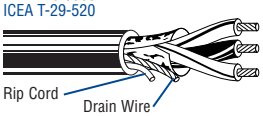
E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

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UL Instrumentation Cable

300V Power-Limited Tray Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/ Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
12 AWG Pairs Stranded (65x30) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	**9412**	1	E2	500 1000	152.4 304.8	41.5 83.0	18.8 37.7	.042	1.07	.370	9.40	197	876	4.25	107.95
															
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	**9312**	1	E2	500 1000	152.4 304.8	49.0 96.0	22.3 43.6	.042	1.07	.373	9.47	225	1001	4.25	107.95
															
12 AWG Triads Stranded (7x20) Bare Copper Conductors • Twisted Triads															
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)															
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	**3102A**	1	E1	Bulk †	Bulk	—	—	.053	1.35	.432	11.00	315	1401	3.50	88.90
															

E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

†Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

To Specify:		
1234	**A**	**E**
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired

Bare	Tinned	Insulation/Jacket
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

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UL Instrumentation Cable

Thermocouple Extension Cables and Thermocouple Wire — Overview

Construction Thermocouple Extension Cable

Conductor material determined by the thermocouple extension wire type. FEP or PVC insulated with FEP or PVC jacket. Nylon rip cord included in all PVC-jacketed thermocouple extension cables. Communication wire included on all multi-pair, PVC constructions — 22 AWG (7x30) bare copper orange PVC insulation.

NOTE: The temperature ranges in Table A are applicable only to the thermocouple conductors and not to the cable. The cable must never be exposed to temperatures higher than the maximum temperature ratings shown in Table B.

Table B: Other Insulation/Jacket Options

UL Listed for PLTC	
Insulation/Jacket	**Max. Temp Rating**
XLPE/PVC	90°C
XLPE/CPE	90°C
PVC/PVC	105°C
PVC/CPE	105°C
PE/PVC	75°C
FPE/PVC	75°C
TPE/TPE	105°C
XLPE/Haloarrest®	90°C
FEP/FEP	200°C

Application

Unshielded

Parallel non-shielded extension wire may be utilized in low noise environments when recommended by the instrument manufacturer.

Overall Shield

Recommended, except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness.

Individually Shielded

Individually shielded pairs are recommended for use in applications where optimum noise rejection is required.

PVC Insulated, PVC Jacketed Cable Specifications

- UL Subject 13
- UL 1685 (UL 1581) Vertical Tray Flame Test comparable to IEEE 383-1974 (70,000 BTU) Flame Test
- ANSI/MC 96.1–1982
- NEC CMG
- NEC Type PLTC Listed, which is approved for cable tray use in Class 1, Division 2, hazardous areas and non-hazardous areas, cable trays, raceways, conduit and supported by messenger wires.
- NEC Type ITC Listed, which is approved for cable tray use, raceways hazardous locations according to Articles 501, 502, 503 and 504; or as aerial on a cable messenger, and under raised floors in control rooms and rack rooms where arranged to prevent damage to the cable. Usages are allowed based on qualified persons servicing all installations.
- PVC/PVC constructions are CMG, FT4, IEEE 1202 and IEEE 383-2003 rated, and meet ICEA T-29-520 Flame Test.
- UL 1277 TC versions approved for use in Class 1 trays available as special.

Shielded Twisted Pair
(FEP insulated, FEP jacketed cable specifications)

- UL Subject 13
- NFPA 262 (UL 910 Steiner Tunnel Flame Test) comparable to FT6 Flame Test
- ANSI/MC 96.1–1982
- NEC Type CL3P/PLTC Listed, which is approved for use in ducts, plenums and other space used for environmental air.
- UL 1277 TC versions approved for use in Class 1 trays available as special.

Thermocouple Wire

Conductor material determined by the thermocouple type. FEP insulated and jacketed flat constructions.

FEP thermocouple wire is impervious to chemical attack and is flame retardant.

Table A: Thermocouple Identification and Limits of Error — Reference Junction 0°C*

ANSI Symbol	Temperature Range (°C) *(conductor only)*	Limits of Error Standard (°C)	Jacket Color	Insulation Color Code		Conductor Identification	
				Positive (+)	Negative (-)	Positive (+)	Negative (-)
E	0 to 340 340 to 540	±1.7°C ±.50%	Brown	Purple	Red	Chromel® Non-magnetic	Constantan Silver Color
J	0 to 293 293 to 480	±2.2°C ±.75%	Brown	White	Red	Iron Magnetic	Constantan Non-magnetic
K	0 to 293 293 to 980	±2.2°C ±.75%	Brown	Yellow	Red	Chromel Non-magnetic	Alumel® Magnetic
T	0 to 133 133 to 260	±1.0°C ±.75%	Brown	Blue	Red	Copper Copper Color	Constantan Non-magnetic
EX	0 to 200	±1.7°C	Purple	Purple	Red	Chromel	Constantan
JX	0 to 200	±2.2°C	Black	White	Red	Iron	Constantan
KX	0 to 200	±2.2°C	Yellow	Yellow	Red	Chromel	Alumel
TX	0 to 100	±1.0°C	Blue	Blue	Red	Copper	Constantan

Limits of error per ANSI MC96.1-1982. Limits shown do not include system or installation error. Percentages refer to the temperature being measured.

*The Temperature Range and Limits of Error are for standard grade thermocouples, Reference ANSI MC96.1-1982 for special grade thermocouples. The Temperature Ranges for type E, J, K and T thermocouple wires listed above pertain to 20 AWG wire.

Additional constructions available upon request.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1

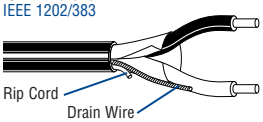
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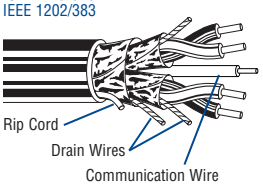
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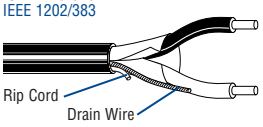
UL Instrumentation Cable

Thermocouple Extension Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	ANSI Type	No. of Pairs	Color Code	Jacket Color	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
						Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
20 AWG Pairs Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)													
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • PVC Jacket													
300V 105°C NEC: PLTC, ITC, CMG CEC: CMG FT4 ICEA T-29-520 IEEE 1202/383	**3111A**	JX	1	White, Red	Black	5000 †	1524.0	115.0	52.2	.016	.41	.206	5.23
	3112A	KX	1	Yellow, Red	Yellow	5000 †	1524.0	120.0	54.5	.016	.41	.206	5.23
	3113A	TX	1	Blue, Red	Blue	5000 †	1524.0	115.0	52.2	.016	.41	.206	5.23
Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket													
300V 105°C NEC: PLTC, ITC, CMG CEC: CMG FT4 ICEA T-29-520 IEEE 1202/383	**3115A**	JX	2	White, Red	Black	5000 †	1524.0	315.0	143.0	.016	.41	.332	8.43
	1006A	JX	4	White, Red	Black	5000 †	1524.0	480.0	217.9	.016	.41	.383	9.73
	1012A	KX	4	Yellow, Red	Yellow	5000 †	1524.0	530.0	240.6	.016	.41	.383	9.73
	1013A	KX	8	Yellow, Red	Yellow	5000 †	1524.0	825.0	374.6	.016	.41	.503	12.78
	1014A	KX	12	Yellow, Red	Yellow	5000 †	1524.0	1195.0	542.5	.016	.41	.603	15.32
16 AWG Pairs Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)													
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket													
300V 105°C NEC: PLTC, ITC, CMG CEC: CMG FT4 ICEA T-29-520 IEEE 1202/383	**1101A**	EX	1	Purple, Red	Purple	10000 †	3048.0	450.0	204.3	.017	.43	.248	6.30
	1000A	JX	1	White, Red	Black	1000 10000 †	304.8 3048.0	42.0 420.0	19.1 190.7	.017	.43	.248	6.30
	1018A	KX	1	Yellow, Red	Yellow	1000 10000 †	304.8 3048.0	42.0 420.0	19.1 190.7	.017	.43	.248	6.30
	1023A	TX	1	Blue, Red	Blue	10000 †	3048.0	450.0	204.3	.017	.43	.248	6.30







Multiple pair cables have each pair numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.

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UL Instrumentation Cable

High-Temperature Thermocouple Extension Cables and Thermocouple Wire
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	ANSI Type	No. of Pairs/ Cond.	Color Code	Jacket Color	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm
High-Temp Extension Cable • 20 AWG Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)													
Plenum • Unshielded • FEP Insulation • FEP Jacket													
300V 200°C NEC: PLTC, CL3P	**83932**	KX	2/c	Yellow, Red	Yellow	500 † 1000 †	152.4 304.8	6.5 12.0	3.0 5.4	.010	.25	.076 x .128	1.93 x 3.25
	83934	TX	2/c	Blue, Red	Blue	1000 †	304.8	13.0	6.0	.010	.25	.076 x .128	1.93 x 3.25
High-Temp Extension Cable • 20 AWG Stranded (7x28) Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)													
Plenum • Unshielded • FEP Insulation • FEP Jacket													
300V 200°C NEC: PLTC, CL3P	**83930**	JX	2/c	White, Red	Black	500 † 1000 †	152.4 304.8	7.5 13.0	3.4 6.0	.010	.25	.082 x .140	2.08 x 3.56
Plenum • Overall Beldfoil® Shield (100% Coverage) • FEP Insulation • FEP Jacket													
300V 200°C NEC: PLTC, CL3P	**83955**	EX	1 pr.	Purple, Red	Purple	500 † 1000 †	152.4 304.8	9.0 16.0	4.1 7.3	.010	.25	.145	3.68
	83950	JX	1 pr.	White, Red	Black	500 † 1000 †	152.4 304.8	9.5 16.0	4.3 7.3	.010	.25	.145	3.68
	83952	KX	1 pr.	Yellow, Red	Yellow	500 † 1000 †	152.4 304.8	9.5 16.0	4.3 7.3	.010	.25	.145	3.68
	83954	TX	1 pr.	Blue, Red	Blue	500 † 1000 †	152.4 304.8	9.0 17.0	4.1 7.7	.010	.25	.145	3.68
High-Temp Extension Cable • 16 AWG Pairs Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)													
Plenum • Overall Beldfoil Shield (100% Coverage) • FEP Insulation • FEP Jacket													
300V 200°C NEC: PLTC, CL3P	**1114A**	EX	1	Purple, Red	Purple	5000 †	1524.0	160.0	72.6	.010	.25	.172	4.37
	1115A	JX	1	White, Red	Black	5000 †	1524.0	155.0	70.4	.010	.25	.172	4.37
	1116A	KX	1	Yellow, Red	Yellow	5000 †	1524.0	160.0	72.6	.010	.25	.171	4.34
	1117A	TX	1	Blue, Red	Blue	5000 †	1524.0	160.0	72.6	.010	.25	.172	4.37
High-Temp Extension Cable • 16 AWG Pairs Stranded (7x24) Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)													
Plenum • Overall Beldfoil Shield (100% Coverage) • FEP Insulation • FEP Jacket													
300V 200°C NEC: PLTC, CL3P	**83951**	JX	1	White, Red	Black	500 † 1000 †	152.4 304.8	16.0 35.0	7.3 15.9	.010	.25	.189	4.80
	83953	KX	1	Yellow, Red	Yellow	500 † 1000 †	152.4 304.8	16.0 32.0	7.3 14.5	.010	.25	.187	4.75
High-Temp Thermocouple Wire • 20 AWG Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)													
Plenum • Unshielded • FEP Insulation • FEP Jacket													
300V 200°C NEC: PLTC, CL3P	**83915**	E	2/c	Purple, Red	Brown	500 † 1000 †	152.4 304.8	7.0 13.0	3.2 6.0	.010	.25	.076 x .128	1.93 x 3.25
	83900	J	2/c	White, Red	Brown	100 500 † 1000 †	30.5 152.4 304.8	2.1 7.0 13.0	1.0 3.2 6.0	.010	.25	.076 x .128	1.93 x 3.25
	83905	K	2/c	Yellow, Red	Brown	100 500 † 1000 †	30.5 152.4 304.8	2.1 7.0 12.0	1.0 3.2 5.4	.010	.25	.076 x .128	1.93 x 3.25
	83910	T	2/c	Blue, Red	Brown	100 500 † 1000 †	30.5 152.4 304.8	2.1 7.0 12.0	1.0 3.2 5.4	.010	.25	.076 x .128	1.93 x 3.25

FEP = Fluorinated Ethylene-propylene

†Final put-up length may vary ±10% from length shown.

Multiple pair cables have each pair numbered for ease of identification.

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UL Instrumentation Cable

600V Tray Cables – Overview

Tray Cable Construction Options

UL Listed for MC and TC				
Insulation/Jacket	Max. Temp Rating		Flame Tests	Ratings*
	Wet	Dry		
PVC-Nylon/PVC (THHN or THWN) 14 AWG & larger	75°C	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	ICEA S-73-532 ICEA S-61-402
PVC-Nylon/PVC (TFN or TFFN) 16 & 18 AWG	N/A	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	ICEA S-73-532 ICEA S-61-402
XLPE/PVC or CPE (XHHW–2) 14 AWG & larger	90°C	90°C	UL 1685 FT4/IEEE 1202/383 VW-1 rated singles ICEA T-29-520	ICEA S-73-532 ICEA S-66-524
XLPE/PVC or CPE (RFH–2) 16 & 18 AWG	75°C	75°C	UL 1685 FT4/IEEE 1202/383 VW-1 rated singles ICEA T-29-520	ICEA S-73-532 ICEA S-66-524 ICEA S-82-552
FRPO/PVC 18 AWG & larger	—	75°C	UL 1685	
TPE/TPE	75°C	90°C	UL 1685	
FRPO/PVC	75°C	90°C	UL 1685	
XLPE/Haloarrest® (XHHW-2) 14 AWG & larger	90°C	90°C	UL 1685 ICEA T-29-520 FT4/IEEE 1202/383	TC-LS
XLPE/Haloarrest (RFH-2) 16 & 18 AWG	75°C	75°C	UL 1685 ICEA T-29-520 FT4/IEEE 1202/383	TC-LS
FEP/PVC	90°C	90°C	UL 1685	

CPE = Chlorinated Polyethylene • FEP = Fluorinated Ethylene-propylene • FRPO = Flame-retardant Polyolefin • PVC = Polyvinyl Chloride • TPE = Thermoplastic Elastomer • XLPE = Cross-linked Polyethylene

*Applicable to TC-rated cables only.

Construction

Soft annealed bare or tinned copper conductors. PVC insulated with a nylon overcoat, 90°C PVC Jacket, TFN, TFFN or THHN style singles. Nylon rip cord included in all PVC-Nylon/PVC instrumentation cables.

Application

These cables are suitable for installation in wet or dry locations. Cable jackets are resistant to sunlight, moisture and vapor penetration. The cables can be used in raceways, and (supported by messenger wire), outdoor applications and direct burial applications.

Unshielded

Twisted non-shielded instrument pairs provide a minimal OD allowing greater tray and conduit fill. Non-shielded instrument pairs may be utilized when recommended by the instrument manufacturer and used in a metallic conduit.

Overall Shield

Recommended for use in instrumentation applications where signals are transmitted in excess of 100 millivolts except in areas where high voltage and current sources creates excessive noise interference.

The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness. Copper tape shield available upon request.

Individually Shielded and Overall Shielded

Individually shielded pairs or triads with an overall shield are recommended for use in instrumentation applications where optimum noise rejection is required. Individual pair/triad shields are fully isolated from each other and contain a separate drain wire for grounding, to provide maximum protection from crosstalk and common mode interference. Cables with an overall shield provide additional electrostatic noise protection.

Conductor, Insulation and Jacket Options*

To Specify:			
1234 (Start with Part No.)	A (Add or replace letter code)		
Bare	Tinned	Insulation/Jacket	
A	B	PVC-Nylon/PVC	
C	D	XLPE/PVC	
E	F	FRPO/PVC	
G	H	XLPE/TPE	
K	L	TPE/TPE	
M	N	PVC-Nylon/Oil Res II	
Q	R	XLPE/CPE	
S	T	XLPE/Haloarrest	

*For 1000 and 3000 Series cables only.

Specifications

- UL Subject 1277 TC
- UL 1685 (UL 1581) Vertical Tray Flame Test comparable to IEEE 383-1974 (70,000 BTU/hr.) Flame Test
- NEC Type TC Listed, which is approved for cable tray use in Class 1, Division 2 areas, per NEC Articles 340, 318 and 501 and for Class 1 circuits as permitted in Article 725
- PVC-nylon/PVC constructions are NEC Type NPLF Listed, which is approved for use in Non Power-Limited Fire Protective Signaling circuits, per NEC Article 760
- PVC-Nylon/PVC, XLPE/PVC and XLPE/CPE constructed cables meet IEEE 1202/IEEE 383-2003/FT4 (70,000 BTU) Flame Test
- XLPE/Haloarrest cables are UL 1277 TC-LS rated

TC-ER Rated Cables

As an option, Belden offers all PVC-nylon/PVC, XLPE/PVC and XLPE/CPE jacketed tray cables with a TC-ER (Exposed Run) rating, formerly referred to as Open Wiring.

Per NEC Article 336, a TC-ER rated cable may be installed in an industrial establishment between a cable tray and the utilization equipment or device. A TC-ER rated cable must meet the crush and impact requirements of UL Type MC cable. By eliminating the need for metal conduit and/or armor, using a TC-ER rated cable results in savings in both installation and maintenance.

MC Cable Ratings Optional

Customize any 600V TC instrumentation cable, with armor and a full-sized ground. See chart below to specify.

To Specify MC Rated Cable			
1 (Overall Jacket Type)	2 (Armor Type)	3456 (Core 4-digit Part No. 600V TC Instrumentation)	A (Conductor, Insulation, Inner Jacket Type)

Overall Jacket

Code	Material
1	PVC
3	CPE
4	TPE
5	HDPE
6	Oil Res II
7	Haloarrest

Armor

Code	Material
2	Aluminum Interlock
3	Steel Interlock

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1.

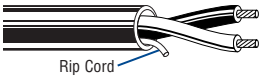
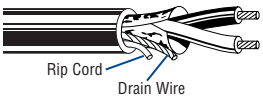
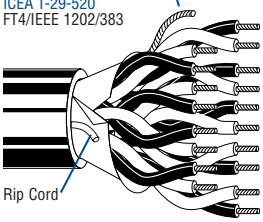
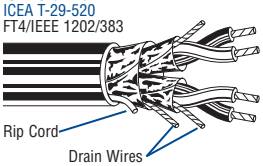
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UL Instrumentation Cable

600V Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
18 AWG Pairs Stranded (19x30) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC/Nylon Insulation • Black PVC Jacket															
NEC: TC, NPLF ICEA S-73-532, ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**9486**	1	E2	1000	304.8	43.0	19.5	.048	1.22	.275	6.99	50	222	2.75	69.85
															
Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket															
NEC: TC, NPLF ICEA S-73-532, ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**9341**	1	E2	500 1000	152.4 304.8	22.0 43.0	10.0 19.5	.048	1.22	.276	7.01	63	280	2.75	69.85
															
18 AWG Pairs Stranded (7x26) Bare Copper Conductors • Twisted Pairs															
Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**1120A**	1	E2	10000 †	3048.0	450.0	204.3	.048	1.22	.278	7.06	59	262	2.80	71.12
	3088A	1	E1	10000 †	3048.0	510.0	231.3	.048	1.22	.278	7.06	67	298	2.80	71.12
	1063A	2	E1	10000 †	3048.0	790.0	358.3	.053	1.35	.407	10.34	112	498	4.10	104.14
	1064A	4	E1	7500 †	2286.0	892.5	404.8	.053	1.35	.470	11.94	202	899	4.70	119.38
	1065A	8	E1	7500 †	2286.0	1650.0	748.4	.064	1.63	.599	15.21	381	1695	6.00	152.40
	1066A	12	E1	5000 †	1524.0	1520.0	689.5	.064	1.63	.717	18.21	560	2491	7.20	182.88
	1067A	16	E1	5000 †	1524.0	1905.0	864.1	.064	1.63	.793	20.14	739	3287	8.00	203.20
	1068A	24	E1	2500 †	762.0	1487.5	674.7	.084	2.13	1.017	25.83	1098	4884	10.30	261.62
	1087A	36	E1	1250 †	381.0	1005.0	455.9	.084	2.13	1.178	29.97	1635	7273	11.70	297.18
	1088A	50	E1	Bulk ††	Bulk	—	—	.084	2.13	1.446	36.73	2262	10062	14.50	368.30
															
Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Options below)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**1048A**	2	E1	7500 †	2286.0	622.5	282.4	.048	1.22	.381	9.68	140	623	3.80	96.52
	1049A	4	E1	7500 †	2286.0	1057.5	479.7	.053	1.35	.489	12.42	258	1148	4.90	124.46
	1050A	8	E1	7500 †	2286.0	1965.0	891.3	.064	1.63	.654	16.61	350	1557	6.60	167.64
	1051A	12	E1	5000 †	1524.0	1915.0	868.6	.064	1.63	.785	19.94	728	3238	7.90	200.66
	1052A	16	E1	2500 †	762.0	1267.5	574.9	.084	2.13	.898	22.81	963	4284	9.00	228.60
	1053A	24	E1	2500 †	762.0	1907.5	865.2	.084	2.13	1.115	28.32	1434	6379	11.10	281.94
	1054A	36	E1	1250 †	381.0	1270.0	576.1	.084	2.13	1.299	32.99	2139	9515	13.00	330.20
	1038A	50	E1	Bulk ††	Bulk	—	—	.084	2.13	1.527	38.79	2962	13176	15.30	388.62
															

E1, E2 = Refer to Technical Information section for color code. Alternate color coding available upon request.
Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

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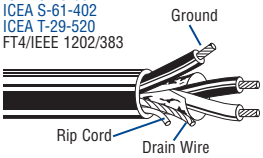
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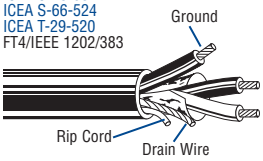
UL Instrumentation Cable

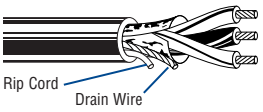
600V Tray Cables

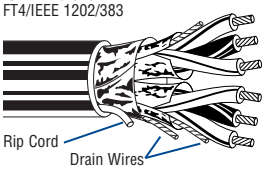
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/ Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
18 AWG Pairs Stranded (7x26) Bare Copper Conductors • Twisted Pairs															
Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Green Ground)															
NEC: TC-ER, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**3088AE**	1	E1	1000 5000 †	3048.0 1524.0	63.0 320.0	28.6 145.3	.048	1.22	.340	8.64	80	356	3.40	86.36
Overall Beldfoil Shield (100% Coverage) • XLPE Insulation • Black PVC Jacket (Green Ground)															
NEC: TC-ER, NPLF ICEA S-73-532 ICEA S-66-524 ICEA T-29-520 FT4/IEEE 1202/383	**3088CE**	1	E1	1000 5000 †	3048.0 1524.0	66.0 375.0	30.0 170.3	.048	1.22	.340	8.64	80	356	3.40	86.36
18 AWG Triads Stranded (7x26) Bare Copper Conductors • Twisted Triads															
Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**1121A**	1	E2	500 † 1000 † 10000 †	152.4 304.8 3048.0	27.5 53.0 560.0	12.5 24.0 254.0	.048	1.22	.282	7.16	90	400	2.75	69.85
	3089A	1	E1	10000 †	3048.0	590.0	267.6	.048	1.22	.284	7.21	90	400	2.75	69.85
Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Options below)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**3064A**	2	E1	Bulk ††	Bulk	—	—	.048	1.22	.493	12.52	185	823	4.75	120.65
	1093A	4	E1	7500 †	2286.0	1545.0	700.8	.063	1.60	.577	14.66	347	1544	6.00	152.40
	1094A	8	E1	5000 †	1524.0	1755.0	796.1	.063	1.60	.745	18.92	672	2989	7.50	190.50
	1095A	12	E1	2500 † 5000 †	762.0 1524.0	1320.0 2875.0	598.8 1304.1	.084	2.13	.944	23.98	997	4435	9.75	247.65
	3066A	16	E1	Bulk ††	Bulk	—	—	.084	2.13	1.046	26.57	1322	5881	10.50	266.70
	1096A	24	E1	Bulk ††	Bulk	—	—	.084	2.13	1.284	32.61	1971	8767	13.00	330.20









E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

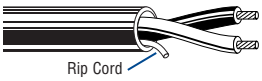
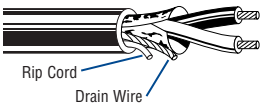
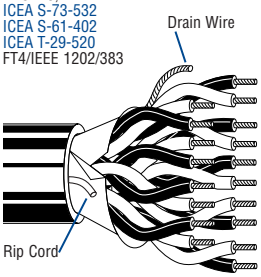
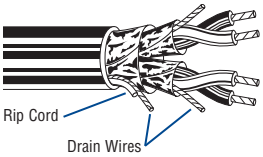
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

UL Instrumentation Cable

600V Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
16 AWG Pairs Stranded (19x29) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC/Nylon Insulation • Black PVC Jacket															
NEC: TC, NPLF ICEA S-73-532, ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**9487**	1	E2	500 1000	152.4 304.8	25.5 54.0	11.6 24.5	.048	1.22	.295	7.49	70	311	3.00	76.20
															
Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket															
NEC: TC, NPLF ICEA S-73-532, ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**9342**	1	E2	500 1000	152.4 304.8	27.5 56.0	12.7 25.4	.048	1.22	.296	7.52	105	467	3.00	76.20
															
16 AWG Pairs Stranded (7x24) Bare Copper Conductors • Twisted Pairs															
Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**1118A**	1	E2	10000 †	3048.0	550.0	249.5	.047	1.19	.294	7.47	105	467	3.00	76.20
	**3090A**	1	E1	2500 †	762.0	150.0	68.0	.047	1.19	.295	7.49	105	467	3.00	76.20
	1069A	2	E1	7500 †	2286.0	712.5	323.2	.047	1.19	.456	11.58	179	796	4.60	116.84
	1527A	3	E1	7500 †	2286.0	1042.5	472.9	.047	1.19	.482	12.24	241	1072	4.80	121.92
	1070A	4	E1	7500 †	2286.0	1357.5	615.8	.063	1.60	.560	14.22	321	1428	5.60	142.24
	1071A	8	E1	7500 †	2286.0	2242.5	1017.2	.063	1.60	.676	17.17	607	2700	6.80	172.72
	1072A	12	E1	5000 †	1524.0	1047.5	475.2	.063	1.60	.812	20.63	893	3972	8.10	205.74
	1073A	16	E1	2500 †	762.0	1442.5	654.3	.085	2.16	.946	24.03	1178	5240	9.30	236.22
	1074A	24	E1	1250 †	381.0	2115.0	959.4	.085	2.16	1.158	29.41	1749	7780	11.60	294.64
	1089A	36	E1	1250 †	381.0	1388.7	629.9	.085	2.16	1.321	33.55	2606	11592	13.20	335.28
	1090A	50	E1	Bulk ††	Bulk	—	—	.085	2.16	1.551	39.40	3606	16040	15.50	393.70
Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Options below)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**1055A**	2	E1	7500 †	2286.0	885.0	401.8	.047	1.19	.476	12.09	223	992	4.16	105.66
	**1037A**	3	E1	7500 †	2286.0	1072.5	486.5	.047	1.19	.504	12.80	290	1290	5.00	127.0
	1039A	4	E1	7500 †	2286.0	1472.5	667.9	.063	1.60	.584	14.83	411	1828	5.80	147.32
	1040A	6	E1	5000 †	1524.0	1435.0	650.9	.063	1.60	.682	17.32	428	1904	6.80	172.72
	1041A	8	E1	5000 †	1524.0	1805.0	818.8	.063	1.60	.738	18.75	786	3496	7.40	187.96
	1042A	12	E1	2500 †	762.0	1327.5	602.2	.085	2.16	.935	23.75	1161	5164	9.40	238.76
	1043A	16	E1	2500 †	762.0	1765.0	800.6	.085	2.16	1.035	26.29	1537	6837	10.40	264.16
	1044A	20	E1	2500 †	762.0	2062.5	935.6	.085	2.16	1.146	29.11	1912	8505	11.50	292.10
	1045A	24	E1	1250 †	381.0	1241.3	563.1	.085	2.16	1.272	32.31	2287	10173	12.70	322.58
	1046A	36	E1	Bulk ††	Bulk	—	—	.085	2.16	1.454	36.93	3413	15182	14.50	368.30
	1047A	50	E1	Bulk ††	Bulk	—	—	.120	3.05	1.781	45.24	4726	21022	17.80	452.12

E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

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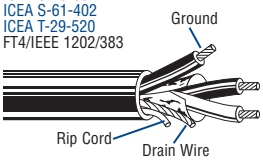
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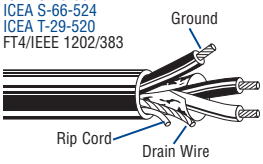
UL Instrumentation Cable

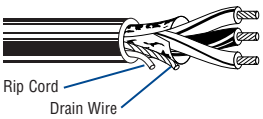
600V Tray Cables

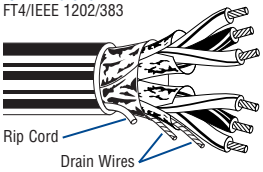
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/ Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
16 AWG Pairs Stranded (7x24) Bare Copper Conductors • Twisted Pairs															
Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Green Ground)															
NEC: TC-ER, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**3090AE**	1	E1	1000 5000 †	304.8 1524.0	65.0 340.0	29.5 154.4	.048	1.22	.390	9.91	130	578	3.90	99.06
Overall Beldfoil Shield (100% Coverage) • XLPE Insulation • Black PVC Jacket (Green Ground)															
NEC: TC-ER, NPLF ICEA S-73-532 ICEA S-66-524 ICEA T-29-520 FT4/IEEE 1202/383	**3090CE**	1	E1	1000 5000 †	3048.0 1524.0	81.0 450.0	39.8 204.3	.048	1.22	.390	9.91	130	578	3.90	99.06
16 AWG Triads Stranded (7x24) Bare Copper Conductors • Twisted Triads															
Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**1119A**	1	E2	500 † 1000 † 10000 †	152.4 304.8 3048.0	35.0 68.0 700.0	15.9 30.9 317.5	.047	1.19	.310	7.87	129	574	3.10	78.74
	3091A	1	E1	10000 †	3048.0	750.0	340.2	.047	1.19	.310	7.87	129	574	3.10	78.74
Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Options below)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**1097A**	4	E1	5000 †	1524.0	1415.0	641.8	.063	1.60	.640	16.26	554	2464	6.40	162.56
	1098A	8	E1	2500 †	762.0	1350.0	612.4	.085	2.16	.872	22.15	1072	4768	8.70	220.98
	1099A	12	E1	2500 †	762.0	1875.0	850.5	.085	2.16	1.047	26.59	1590	7073	10.50	266.70
	3118A	16	E1	Bulk ††	Bulk	—	—	.084	2.13	1.234	31.34	1771	7878	12.25	311.15
	1100A	24	E1	Bulk ††	Bulk	—	—	.085	2.16	1.434	36.42	3144	13985	14.30	363.22
	3130A	36	E1	Bulk ††	Bulk	—	—	.110	2.79	1.773	45.03	3600	16013	18.00	457.20









E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.
††Bulk = Check length available for specific construction.

To Specify:		
1234	**A**	**E**
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

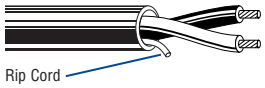
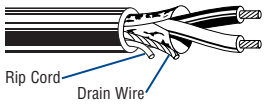
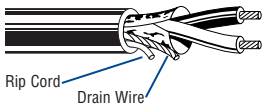
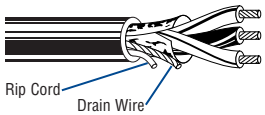
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UL Instrumentation Cable

600V Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/ Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
14 AWG Pairs Stranded (42x30) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC/Nylon Insulation • Black PVC Jacket															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**9488**	1	E2	1000	304.8	77.0	34.9	.048	1.22	.359	9.12	107	476	3.75	95.25
															
Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**9343**	1	E2	500 1000	152.4 304.8	42.5 86.0	19.1 39.0	.048	1.22	.358	9.09	160	712	3.75	95.25
															
14 AWG Pairs Stranded (7x22) Bare Copper Conductors • Twisted Pairs															
Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**3080A**	1	E1	Bulk*	Bulk*	—	—	.048	1.22	.342	8.69	160	712	3.50	88.90
															
14 AWG Triads Stranded (7x22) Bare Copper Conductors • Twisted Triads															
Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**3081A**	1	E1	Bulk*	Bulk*	—	—	.048	1.22	.361	9.17	200	890	3.50	88.90
															

E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

*Bulk = Check length available for specific construction.

To Specify:

1234 **A** **E**

Start with Part No. — Add or replace letter code for desired conductor, insulation & jacket — Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

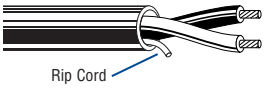
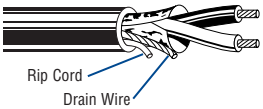
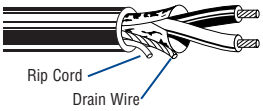
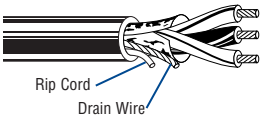
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UL Instrumentation Cable

600V Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/ Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
12 AWG Pairs Stranded (37x27) Tinned Copper Conductors • Twisted Pairs															
Unshielded • PVC/Nylon Insulation • Black PVC Jacket															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**9489**	1	E2	1000	304.8	88.0	39.9	.045	1.14	.380	9.65	170	756	3.75	95.25
															
Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**9344**	1	E2	500 1000	152.4 304.8	54.0 111.0	24.5 50.4	.045	1.14	.384	9.75	253	1125	3.75	95.25
															
12 AWG Pairs Stranded (7x20) Bare Copper Conductors • Twisted Pairs															
Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**3103A**	1	E1	Bulk*	Bulk*	—	—	.048	1.22	.380	9.65	253	1125	3.80	96.52
															
12 AWG Triads Stranded (7x20) Bare Copper Conductors • Twisted Triads															
Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)															
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	**3104A**	1	E1	Bulk*	Bulk*	—	—	.048	1.22	.401	10.19	315	1401	4.00	101.60
															

E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

*Bulk = Check length available for specific construction.

To Specify:

1234 Start with Part No. **A** Add or replace letter code for desired conductor, insulation & jacket **E** Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

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UL Control Cable

600V Type TC Cables — Overview

Introduction

Belden offers a wide selection of UL-rated 600V Tray Cable for a variety of control applications.

Multi-conductor versions are available as standards from 18 to 1 AWG. 1/0 through 4/0 are also available as custom made constructions. These are unshielded and shielded versions that come with various insulation and jacket combinations.

These TC cables are installed in cable trays, ducts and conduit and can be used in direct burial applications. They are extensively used in manufacturing facilities, especially in the process industries such as petrochemical, steel, pulp and paper, cement and mining.

These flexible, space efficient cables can be substantially more economical than traditional wiring methods.

Construction

Soft annealed bare or tinned copper conductors, with various insulation and jacketing options as seen in chart below.

Application

These cables are suitable for installation in wet or dry locations. Cable jackets are resistant to sunlight, moisture and vapor penetration. The cables can be used in raceways (supported by messenger wire), outdoor applications and direct burial applications.

Unshielded

Cabled non-shielded conductors provide a minimal O.D. allowing greater tray and conduit fill. Non-shielded control cable may be utilized when recommended by the equipment manufacturer and used in a metallic conduit.

Overall Shield

Recommended for use in control applications where signals are transmitted in excess of 100 millivolts, except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness. Copper tape shield available upon request.

Only 2-conductor round constructions can be shielded. Flat constructions cannot be shielded.

Tray Cable Construction Options

UL Listed for MC and TC				
Insulation/Jacket	Max. Temp Rating		Flame Tests	Ratings*
	Wet	Dry		
PVC-Nylon/PVC (THHN or THWN) 14 AWG & larger	75°C	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	ICEA S-73-532 ICEA S-95-658 ICEA S-61-402
PVC-Nylon/PVC (TFN or TFFN) 16 & 18 AWG	NA	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	ICEA S-73-532 ICEA S-95-658 ICEA S-61-402
XLPE/PVC or CPE (XHHW–2) 14 AWG & larger	90°C	90°C	UL 1685 FT4/IEEE 1202/383 VW-1 rated singles ICEA T-29-520	ICEA S-73-532 ICEA S-95-658 ICEA S-66-524
XLPE/PVC or CPE (RFH–2) 16 & 18 AWG	75°C	75°C	UL 1685 FT4/IEEE 1202/383 VW-1 rated singles ICEA T-29-520	ICEA S-73-532 ICEA S-95-658 ICEA S-66-524
FRPO/PVC 18 AWG & larger	—	75°C	UL 1685	
TPE/TPE	75°C	90°C	UL 1685	
FRPO/PVC	75°C	90°C	UL 1685	
XLPE/Haloarrest® (XHHW-2) 14 AWG & larger	90°C	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	TC-LS
XLPE/Haloarrest (RFH-2) 16 & 18 AWG	75°C	75°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	TC-LS
FEP/PVC	90°C	90°C	UL 1685	

CPE = Chlorinated Polyethylene • FEP = Fluorinated Ethylene-propylene • FRPO = Flame-retardant Polyolefin • PVC = Polyvinyl Chloride • TPE = Thermoplastic Elastomer • XLPE = Cross-linked Polyethylene

*Applicable to TC-rated cables only.

Ground Wire

- Non-insulated, bare copper ground wires are included for constructions 8 through 1 AWG. Non-insulated, bare copper, full sized ground wires may be requested on other constructions.
- All shielded PVC-Nylon/PVC constructions include full sized ground (drain) wires.

Color Code

Multi-conductor control cables (10 AWG to 18 AWG) are printed alpha-numerically in addition to being color coded per ICEA Table E2.

8 AWG and larger are black and numbered per ICEA Method 4.

Refer to Technical Information Section for ICEA color code charts.

Specifications

- UL Subject 1277 Type TC
- XLPE/Haloarrest jacketed cables are UL 1277 TC-LS rated
- UL Subject 1424 (per outline for NPLF requirements dated May 3, 1979)
- UL 1685 (UL 1581) Vertical Flame Test comparable to IEEE 383-1974 (70,000 BTU/hr) Flame Test
- Approved for cable tray use in Class 1, Division 2 areas, per NEC Articles 340, 318 and 501, and for Class 1 circuits as permitted in Article 725
- PVC-Nylon/PVC, XLPE/PVC and XLPE/CPE constructed cables meet IEEE 1202/IEEE 383-2003/FT4 (70,000 BTU/hr) Flame Test

TC-ER Rated Cables

As an option, Belden offers all PVC-nylon/PVC, XLPE/PVC and XLPE/CPE jacketed tray cables with a TC-ER (Exposed Run) rating, formerly referred to as Open Wiring.

Per NEC Article 336, a TC-ER rated cable may be installed in an industrial establishment between a cable tray and the utilization equipment or device. A TC-ER rated cable must meet the crush and impact requirements of UL Type MC cable. By eliminating the need for metal conduit and/or armor, using a TC-ER rated cable results in savings in both installation and maintenance.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1

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UL Control Cable

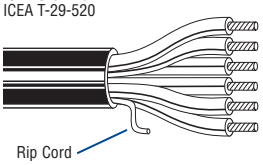
600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

18 AWG Multi-conductor Stranded (7x26) Bare Copper Conductors

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520

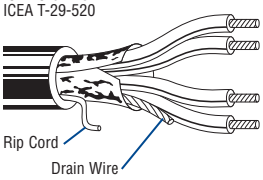


Description	Part No.	No. of Cond.	Color Code	Standard Lengths Ft.	Standard Lengths m	Weight Lbs./1000′	Weight kg/km	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Maximum Pull Tension Lbs.	Maximum Pull Tension N	Minimum Bend Radius Inch	Minimum Bend Radius mm
	27916A†	2	E2	Bulk	Bulk	33.0	49.1	.045	1.14	.180 x .266	4.57 x 6.76	44	195.8	2.7	68.58
	27325A††	2	E2	Bulk	Bulk	34.0	50.6	.045	1.14	.270	6.86	44	195.8	2.7	68.58
	27334A	3	E2	Bulk	Bulk	45.0	67.0	.045	1.14	.280	7.11	66	293.7	2.8	71.12
	27326A	4	E2	Bulk	Bulk	52.0	77.4	.045	1.14	.310	7.87	88	391.6	3.1	78.74
	27335A	5	E2	Bulk	Bulk	62.0	92.3	.045	1.14	.330	8.38	110	489.5	3.3	83.82
	27600A	6	E2	Bulk	Bulk	72.0	107.2	.045	1.14	.350	8.89	132	587.4	3.5	88.90
	27327A	7	E2	Bulk	Bulk	79.0	117.6	.045	1.14	.350	8.89	154	685.3	3.5	88.90
	27601A	8	E2	Bulk	Bulk	89.0	132.5	.045	1.14	.390	9.83	176	783.2	3.8	96.52
	27336A	9	E2	Bulk	Bulk	104.0	154.8	.045	1.14	.410	10.41	198	881.1	4.1	104.14
	27328A	10	E2	Bulk	Bulk	111.0	165.2	.060	1.52	.450	11.43	220	979.0	4.5	114.30
	27602A	11	E2	Bulk	Bulk	—	—	.060	1.52	.450	11.43	242	1076.9	4.5	114.30
	27329A	12	E2	Bulk	Bulk	127.0	189.0	.060	1.52	.450	11.43	264	1174.8	4.5	114.30
	27603A	13	E2	Bulk	Bulk	142.0	211.3	.060	1.52	.470	11.94	286	1272.7	4.7	119.38
	27604A	14	E2	Bulk	Bulk	—	—	.060	1.52	.480	12.19	308	1370.6	4.8	121.92
	27605A	15	E2	Bulk	Bulk	175.0	260.4	.060	1.52	.510	12.95	330	1468.5	5.1	129.54
	27606A	16	E2	Bulk	Bulk	167.0	248.5	.060	1.52	.500	12.70	352	1566.4	5.0	127.00
	27607A	17	E2	Bulk	Bulk	—	—	.060	1.52	.570	14.48	374	1664.3	5.7	144.78
	27608A	18	E2	Bulk	Bulk	196.0	291.7	.060	1.52	.570	14.48	396	1762.2	5.7	144.78
	27609A	19	E2	Bulk	Bulk	202.0	300.6	.060	1.52	.570	14.48	418	1860.1	5.7	144.78
	27610A	20	E2	Bulk	Bulk	214.0	318.5	.060	1.52	.600	15.24	440	1958.0	5.9	149.86
	27611A	25	E2	Bulk	Bulk	258.0	384.0	.060	1.52	.660	16.76	550	2447.5	6.6	167.64
	27612A	30	E2	Bulk	Bulk	300.0	446.5	.060	1.52	.690	17.53	660	2937.0	6.6	167.64
	27613A	37	E2	Bulk	Bulk	360.0	535.8	.080	2.03	.740	18.80	814	3622.3	7.4	187.96
	27614A	50	E2	Bulk	Bulk	511.0	760.5	.080	2.03	.910	23.11	1100	4895.0	9.1	231.14
	27632A	60	E2	Bulk	Bulk	627.0	933.1	.080	2.03	.960	24.38	1320	5874.0	9.6	243.84

18 AWG Multi-conductor Stranded (7x26) Bare Copper Conductors • Overall Beldfoil® Shield (100% Coverage) with Drain Wire

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520



	27325AS	2	E2	Bulk	Bulk	34.0	50.6	.045	1.14	.270	6.86	67	298	2.70	68.58
	27334AS	3	E2	Bulk	Bulk	45.0	67.0	.045	1.14	.280	7.11	90	400	2.80	71.12
	27326AS	4	E2	Bulk	Bulk	60.0	89.3	.045	1.14	.300	7.62	112	498	3.10	81.28

E2 = Refer to Technical Information section for color code.

† Flat construction; overall shield not available.
†† Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

To Specify:		
12345	**A**	**S**
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a 7 to an 8. For example: 27080A with TC-ER rating becomes 28080A.

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	**B**	PVC-Nylon/PVC
C	**D**	XLPE/PVC
E	**F**	FRPO/PVC
G	**H**	XLPE/TPE
K	**L**	TPE/TPE
M	**N**	PVC-Nylon/Oil Res II
Q	**R**	XLPE/CPE
S	**T**	XLPE/Haloarrest®

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UL Control Cable

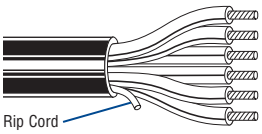
600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

16 AWG Multi-conductor Stranded (7x24) Bare Copper Conductors

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520

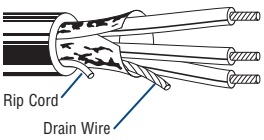


Part No.	No. of Cond.	Color Code	Standard Lengths Ft.	Standard Lengths m	Weight Lbs./1000′	Weight kg/km	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Maximum Pull Tension Lbs.	Maximum Pull Tension N	Minimum Bend Radius Inch	Minimum Bend Radius mm
27917A†	2	E2	Bulk	Bulk	42.0	62.5	.045	1.14	.190 x .290	4.83 x 7.37	70	312	2.9	73.66
27337A††	2	E2	Bulk	Bulk	45.0	67.0	.045	1.14	.299	7.60	70	312	2.9	73.66
27331A	3	E2	Bulk	Bulk	55.0	81.9	.045	1.14	.307	7.80	105	467	3.1	78.74
27338A	4	E2	Bulk	Bulk	69.0	102.7	.045	1.14	.332	8.18	140	623	3.3	83.82
27339A	5	E2	Bulk	Bulk	83.0	123.5	.045	1.14	.360	9.14	175	779	3.6	91.44
27615A	6	E2	Bulk	Bulk	96.0	142.9	.045	1.14	.390	9.91	210	935	3.9	99.06
27323A	7	E2	Bulk	Bulk	106.0	157.7	.045	1.14	.390	9.91	245	1090	3.9	99.06
27616A	8	E2	Bulk	Bulk	122.0	181.6	.045	1.14	.420	10.67	280	1246	4.2	106.68
27340A	9	E2	Bulk	Bulk	138.0	200.4	.045	1.14	.450	11.43	315	1402	4.5	114.30
27617A	10	E2	Bulk	Bulk	149.0	221.7	.045	1.14	.490	12.45	350	1558	4.9	124.46
27618A	11	E2	Bulk	Bulk	161.0	239.6	.045	1.14	.490	12.45	385	1713	4.9	124.46
27341A	12	E2	Bulk	Bulk	174.0	258.9	.045	1.14	.500	12.70	420	1869	5.0	127.00
27619A	13	E2	Bulk	Bulk	203.0	302.1	.045	1.14	.570	14.48	455	2025	5.7	144.78
27620A	14	E2	Bulk	Bulk	223.0	331.8	.045	1.14	.570	14.48	490	2181	5.7	144.78
27621A	15	E2	Bulk	Bulk	229.0	340.8	.060	1.52	.590	14.99	525	2336	5.9	149.86
27330A	16	E2	Bulk	Bulk	241.0	358.7	.045	1.14	.600	15.24	560	2492	6.0	152.40
27622A	17	E2	Bulk	Bulk	267.0	397.3	.060	1.52	.630	16.00	595	2648	6.3	160.02
27623A	18	E2	Bulk	Bulk	—	—	.060	1.52	.630	16.00	630	2804	6.3	160.02
27624A	19	E2	Bulk	Bulk	287.0	427.1	.060	1.52	.630	16.00	665	2959	6.3	160.02
27625A	20	E2	Bulk	Bulk	304.0	452.4	.060	1.52	.660	16.76	700	3115	6.6	167.64
27324A	25	E2	Bulk	Bulk	367.0	546.1	.080	2.03	.730	18.54	875	3894	7.3	185.42
27626A	30	E2	Bulk	Bulk	428.0	636.9	.080	2.03	.770	19.56	1050	4673	7.7	195.58
27627A	37	E2	Bulk	Bulk	514.0	764.8	.080	2.03	.830	21.08	1295	5763	8.3	210.82
27628A	50	E2	Bulk	Bulk	723.0	1075.8	.080	2.03	1.000	25.40	1750	7788	10.0	254.00
27633A	60	E2	Bulk	Bulk	844.0	1255.9	.080	2.03	1.100	27.94	2100	9345	11.0	279.40

16 AWG Multi-conductor Stranded (7x24) Bare Copper Conductors • Overall Beldfoil® Shield (100% Coverage) with Drain Wire

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520



Part No.	No. of Cond.	Color Code	Standard Lengths Ft.	Standard Lengths m	Weight Lbs./1000′	Weight kg/km	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Maximum Pull Tension Lbs.	Maximum Pull Tension N	Minimum Bend Radius Inch	Minimum Bend Radius mm
27337AS	2	E2	Bulk	Bulk	45.0	67.0	.045	1.14	.302	7.67	94	418	3.00	76.20
27331AS	3	E2	Bulk	Bulk	55.0	81.8	.045	1.14	.320	8.13	130	578	3.20	81.28

E2 = Refer to Technical Information section for color code.

† Flat construction; overall shield not available.
†† Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

To Specify:		
12345	**A**	**S**
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a 7 to an 8. For example: 27080A with TC-ER rating becomes 28080A.

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

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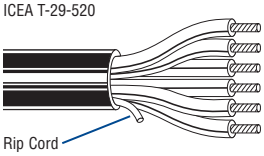
UL Control Cable

600V Type TC Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

14 AWG Multi-conductor Stranded (7x22) Bare Copper Conductors

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520

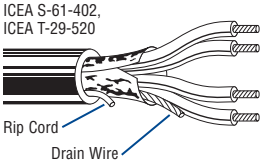


Description	Part No.	No. of Cond.	Color Code	Standard Lengths Ft.	Standard Lengths m	Weight Lbs./1000′	Weight kg/km	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Maximum Pull Tension Lbs.	Maximum Pull Tension N	Minimum Bend Radius Inch	Minimum Bend Radius mm
	27080A†	2	E2	1000 Bulk	304.8 Bulk	61.0 61.0	27.7 27.7	.045	1.14	.210 x .320	5.33 x 8.13	108	481	3.5	88.90
	27636A††	2	E2	Bulk	Bulk	62.0	92.3	.045	1.14	.320	8.13	108	481	3.2	81.28
	27081A	3	E2	1000 Bulk	304.8 Bulk	86.0 86.0	39.0 39.0	.045	1.14	.340	8.64	162	721	3.4	86.36
	27082A	4	E2	1000 Bulk	304.8 Bulk	110.0 110.0	49.9 49.9	.045	1.14	.360	9.14	216	961	3.6	91.44
	27083A	5	E2	Bulk	Bulk	118.0	175.6	.045	1.14	.400	10.16	270	1202	3.9	99.06
	27084A	6	E2	Bulk	Bulk	140.0	208.3	.045	1.14	.434	11.02	324	1442	4.3	109.22
	27085A	7	E2	Bulk	Bulk	153.0	227.7	.045	1.14	.433	11.00	378	1682	4.3	109.22
	27086A	8	E2	Bulk	Bulk	173.0	257.5	.045	1.14	.480	12.19	432	1922	4.7	119.38
	27087A	9	E2	Bulk	Bulk	196.0	291.7	.045	1.14	.510	12.95	486	2163	5.1	129.54
	27088A	10	E2	Bulk	Bulk	230.0	342.3	.060	1.52	.588	14.94	540	2403	5.7	144.78
	27089A	11	E2	Bulk	Bulk	251.0	373.6	.060	1.52	.595	15.11	594	2643	5.9	149.86
	27090A	12	E2	Bulk	Bulk	270.0	401.8	.060	1.52	.595	15.11	648	2884	5.9	149.86
	27091A	13	E2	Bulk	Bulk	—	—	.060	1.52	.640	16.26	702	3124	6.3	160.02
	27092A	14	E2	Bulk	Bulk	308.0	458.3	.060	1.52	.640	16.26	756	3364	6.3	160.02
	27093A	15	E2	Bulk	Bulk	330.0	491.1	.060	1.52	.670	17.02	810	3605	6.7	170.18
	27094A	16	E2	Bulk	Bulk	343.0	510.5	.060	1.52	.671	17.04	864	3845	6.6	167.64
	27095A	17	E2	Bulk	Bulk	—	—	.060	1.52	.700	17.78	918	4085	7.0	177.80
	27096A	18	E2	Bulk	Bulk	—	—	.060	1.52	.700	17.78	972	4325	7.0	177.80
	27097A	19	E2	Bulk	Bulk	396.0	589.3	.060	1.52	.705	17.91	1026	4566	7.0	177.80
	27098A	20	E2	Bulk	Bulk	425.0	632.5	.060	1.52	.735	18.67	1080	4806	7.4	187.96
	27099A	21	E2	Bulk	Bulk	438.0	651.7	.060	1.52	.740	18.80	1134	5046	7.4	187.96
	27100A	22	E2	Bulk	Bulk	—	—	.060	1.52	.760	19.30	1188	5287	7.6	193.04
	27101A	23	E2	Bulk	Bulk	—	—	.060	1.52	.760	19.30	1242	5527	7.6	193.04
	27102A	24	E2	Bulk	Bulk	495.0	736.7	.060	1.52	.810	20.57	1296	5767	8.1	205.74
	27103A	25	E2	Bulk	Bulk	560.0	833.4	.060	1.52	.810	20.57	1350	6008	8.1	205.74
	27104A	26	E2	Bulk	Bulk	—	—	.060	1.52	.810	20.57	1404	6248	8.1	205.74
	27105A	27	E2	Bulk	Bulk	587.0	873.5	.080	2.03	.870	22.10	1458	6488	8.7	220.98
	27106A	28	E2	Bulk	Bulk	—	—	.080	2.03	.910	23.11	1512	6728	9.1	231.14
	27107A	29	E2	Bulk	Bulk	680.0	1012.0	.080	2.03	.910	23.11	1566	6969	9.1	231.14
	27108A	30	E2	Bulk	Bulk	639.0	950.8	.080	2.03	.902	22.91	1620	7209	9.0	228.60
	27629A	37	E2	Bulk	Bulk	768.0	1142.9	.080	2.03	.975	24.77	1998	8891	9.7	246.38
	27912A	50	E2	Bulk	Bulk	1080.0	1607.3	.080	2.03	1.138	28.91	2700	12015	11.3	287.02

14 AWG Multi-conductor Stranded (7x22) Bare Copper Conductors • Overall Beldfoil® Shield (100% Coverage) with Drain Wire

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532, ICEA S-95-658
ICEA S-61-402,
ICEA T-29-520



	27081AS	3	E2	Bulk	Bulk	80.0	119.1	.045	1.14	.340	8.64	99	440	3.4	86.36
	27082AS	4	E2	Bulk	Bulk	105.0	156.3	.045	1.14	.391	9.93	273	1214	3.9	99.06

E2 = Refer to Technical Information section for color code.

† Flat construction; overall shield not available.
†† Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

To Specify:		
12345	A	S
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a 7 to an 8. For example: 27080A with TC-ER rating becomes 28080A.

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

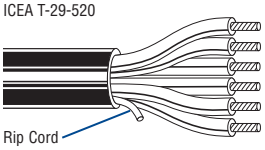
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UL Control Cable

600V Type TC Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Cond.	Color Code	Standard Lengths		Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs./ 1000′	kg/km	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
12 AWG Multi-conductor Stranded (7x20) Bare Copper Conductors															
PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)															
NEC: TC, NPLF FT4/IEEE 1202/383 ICEA S-73-532 ICEA S-95-658 ICEA S-61-402 ICEA T-29-520	**27109A**†	2	E2	1000 Bulk	304.8 Bulk	74.0 74.0	110.0 110.0	.045	1.14	.220 x .350	5.59 x 8.89	172	765	3.5	88.90
	27641A††	2	E2	Bulk	Bulk	86.0	128.0	.045	1.14	.360	9.14	172	765	3.6	91.44
	27110A	3	E2	1000 Bulk	304.8 Bulk	110.0 110.0	163.7 163.7	.045	1.14	.374	9.50	258	1148	3.7	93.98
	27111A	4	E2	1000 Bulk	304.8 Bulk	134.0 134.0	199.0 199.0	.045	1.14	.410	10.41	344	1531	4.1	104.14
	27112A	5	E2	Bulk	Bulk	165.0	245.6	.045	1.14	.450	11.43	430	1914	4.5	114.30
	27113A	6	E2	Bulk	Bulk	197.0	293.2	.045	1.14	.480	12.19	516	2296	4.8	121.92
	27114A	7	E2	Bulk	Bulk	216.0	321.5	.045	1.14	.480	12.19	602	2679	4.8	121.92
	27115A	8	E2	Bulk	Bulk	263.0	391.4	.060	1.52	.560	14.22	688	3062	5.6	142.24
	27116A	9	E2	Bulk	Bulk	297.0	442.0	.060	1.52	.600	15.24	774	3444	6.0	152.40
	27117A	10	E2	Bulk	Bulk	324.0	482.2	.060	1.52	.660	16.76	860	3827	6.6	167.64
	27118A	11	E2	Bulk	Bulk	—	—	.060	1.52	.670	17.02	946	4210	6.7	170.18
	27119A	12	E2	Bulk	Bulk	378.0	562.5	.060	1.52	.670	17.02	1032	4592	6.7	170.18
	27120A	13	E2	Bulk	Bulk	—	—	.060	1.52	.700	17.78	1118	4975	7.0	177.80
	27121A	14	E2	Bulk	Bulk	—	—	.060	1.52	.700	17.78	1204	5358	7.0	177.80
	27122A	15	E2	Bulk	Bulk	468.0	696.5	.060	1.52	.740	18.80	1290	5741	7.4	187.96
	27123A	16	E2	Bulk	Bulk	490.0	729.2	.060	1.52	.750	19.05	1376	6123	7.5	190.50
	27124A	17	E2	Bulk	Bulk	—	—	.060	1.52	.770	19.56	1462	6506	7.7	195.58
	27125A	18	E2	Bulk	Bulk	—	—	.060	1.52	.770	19.56	1548	6889	7.7	195.58
	27126A	19	E2	Bulk	Bulk	568.0	845.3	.060	1.52	.790	20.07	1634	7271	7.9	200.66
	27127A	20	E2	Bulk	Bulk	640.0	952.4	.080	2.03	.870	22.10	1720	7654	8.7	220.98
	27128A	21	E2	Bulk	Bulk	—	—	.080	2.03	.870	22.10	1806	8037	8.7	220.98
	27129A	22	E2	Bulk	Bulk	—	—	.080	2.03	.890	22.61	1892	8419	8.9	226.06
	27130A	23	E2	Bulk	Bulk	—	—	.080	2.03	.890	22.61	1978	8802	8.9	226.06
	27131A	24	E2	Bulk	Bulk	—	—	.080	2.03	.940	23.88	2064	9185	9.4	238.76
	27132A	25	E2	Bulk	Bulk	775.0	1153.4	.080	2.03	.960	24.38	2150	9568	9.6	243.84
	27133A	26	E2	Bulk	Bulk	—	—	.080	2.03	.960	24.38	2236	9950	9.6	243.84
	27134A	27	E2	Bulk	Bulk	828.0	1232.2	.080	2.03	.960	24.38	2322	10333	9.6	243.84
	27135A	28	E2	Bulk	Bulk	—	—	.080	2.03	.990	25.15	2408	10716	9.9	251.46
	27136A	29	E2	Bulk	Bulk	—	—	.080	2.03	.990	25.15	2494	11098	9.9	251.46
	27137A	30	E2	Bulk	Bulk	910.0	1354.3	.080	2.03	1.020	25.91	2580	11481	10.2	259.08
	27630A	37	E2	Bulk	Bulk	1100.0	1637.0	.080	2.03	1.090	27.69	3182	14160	10.9	276.86
	27634A	50	E2	Bulk	Bulk	1450.0	2157.9	.080	2.03	1.300	33.02	4300	19135	13.0	330.20



E2 = Refer to Technical Information section for color code.

† Flat construction; overall shield not available.
†† Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

To Specify:		
12345	A	S
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil® Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a 7 to an 8. For example: 27080A with TC-ER rating becomes 28080A.

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

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UL Control Cable

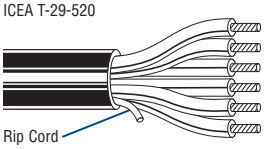
600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

10 AWG Multi-conductor Stranded (7x18) Bare Copper Conductors

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520

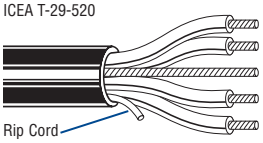


Description	Part No.	No. of Cond.	Color Code	Standard Lengths Ft.	Standard Lengths m	Weight Lbs./1000′	Weight kg/km	Jacket Thickness Inch	Jacket Thickness mm	Nominal OD Inch	Nominal OD mm	Maximum Pull Tension Lbs.	Maximum Pull Tension N	Minimum Bend Radius Inch	Minimum Bend Radius mm
	27138A†	2	E2	Bulk	Bulk	83.0	123.5	.045	1.14	.260 x .420	6.60 x 10.67	296	1317	4.2	106.68
	27643A††	2	E2	Bulk	Bulk	131.0	195.0	.045	1.14	.420	10.67	296	1317	4.2	106.68
	27139A	3	E2	1000 Bulk	304.8 Bulk	164.0 164.0	244.0 244.0	.045	1.14	.450	11.43	444	1976	4.5	114.30
	27140A	4	E2	1000 Bulk	304.8 Bulk	216.0 216.0	321.0 321.0	.045	1.14	.490	12.45	592	2634	4.9	124.46
	27141A	5	E2	Bulk	Bulk	276.0	410.7	.060	1.52	.570	14.48	740	3293	5.7	144.78
	27142A	6	E2	Bulk	Bulk	329.0	489.6	.060	1.52	.620	15.75	888	3952	6.2	157.48
	27143A	7	E2	Bulk	Bulk	361.0	537.2	.060	1.52	.620	15.75	1036	4610	6.2	157.48
	27144A	8	E2	Bulk	Bulk	411.0	611.7	.060	1.52	.680	17.27	1184	5269	6.8	172.72
	27145A	9	E2	Bulk	Bulk	465.0	692.0	.060	1.52	.720	18.29	1332	5927	7.2	182.88
	27146A	10	E2	Bulk	Bulk	542.0	806.6	.060	1.52	.790	20.07	1480	6586	7.9	200.66
	27147A	11	E2	Bulk	Bulk	582.0	866.0	.060	1.52	.790	20.07	1628	7245	7.9	200.66
	27148A	12	E2	Bulk	Bulk	620.0	922.7	.080	2.03	.820	20.83	1776	7903	8.2	208.28

8 AWG Multi-conductor Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520



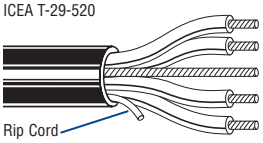
	27149A	2	**	Bulk	Bulk	220.0	327.4	.060	1.52	.560	14.22	384	1709	5.6	142.24
	27150A	3	**	1000 Bulk	304.8 Bulk	354.0 354.0	527.0 527.0	.060	1.52	.590	14.99	576	2563	5.9	149.86
	27151A	4	**	Bulk	Bulk	394.0	327.4	.060	1.52	.650	16.51	768	3418	6.5	165.10

**ICEA Method 4 Color Code

6 AWG Multi-conductor Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520



	27152A	2	**	Bulk	Bulk	316.0	434.6	.060	1.52	.630	16.00	610	2715	6.3	160.02
	27153A	3	**	1000 Bulk	304.8 Bulk	477.0 477.0	710.0 710.0	.060	1.52	.670	17.02	915	4072	6.7	170.18
	27154A	4	**	Bulk	Bulk	519.0	759.0	.060	1.52	.730	18.54	1220	5429	7.3	185.42

**ICEA Method 4 Color Code

E2 = Refer to Technical Information section for color code.

† Flat construction; overall shield not available.
†† Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

To Specify:		
12345	**A**	**S**
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil® Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a 7 to an 8. For example: 27080A with TC-ER rating becomes 28080A.

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	**B**	PVC-Nylon/PVC
C	**D**	XLPE/PVC
E	**F**	FRPO/PVC
G	**H**	XLPE/TPE
K	**L**	TPE/TPE
M	**N**	PVC-Nylon/Oil Res II
Q	**R**	XLPE/CPE
S	**T**	XLPE/Haloarrest®

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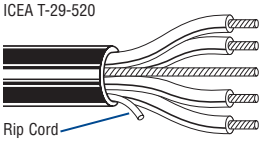
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UL Control Cable

600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Cond.	Color Code	Standard Lengths		Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs./ 1000′	kg/km	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
4 AWG Multi-conductor Stranded (7x12) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire															
PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)															
NEC: TC, NPLF FT4/IEEE 1202/383 ICEA S-73-532 ICEA S-95-658 ICEA S-61-402 ICEA T-29-520	**27155A**	2	**	Bulk	Bulk	455.0	677.1	.060	1.52	.770	19.56	970	4317	7.7	195.58
	27156A	3	**	Bulk	Bulk	630.0	937.6	.080	2.03	.820	20.83	1455	6475	8.2	208.28
	27157A	4	**	Bulk	Bulk	850.0	1265.0	.080	2.03	.950	24.13	1940	8633	9.5	241.30

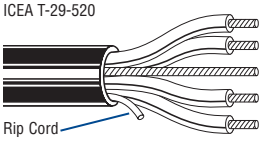


**ICEA Method 4 Color Code

2 AWG Multi-conductor Stranded (7x10) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF FT4/IEEE 1202/383 ICEA S-73-532 ICEA S-95-658 ICEA S-61-402 ICEA T-29-520	**27158A**	2	**	Bulk	Bulk	716.0	1065.6	.080	2.03	.970	24.64	1544	6871	9.7	246.38
	27159A	3	**	Bulk	Bulk	960.0	1428.7	.080	2.03	.990	25.15	2316	10306	9.9	251.46
	27160A	4	**	Bulk	Bulk	1213.0	1805.2	.080	2.03	1.090	27.69	3088	13742	10.9	276.86

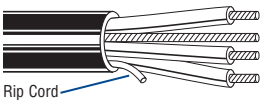


**ICEA Method 4 Color Code

1 AWG Multi-conductor Stranded (19x14) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire

PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF FT4/IEEE 1202/383 ICEA S-73-532 ICEA S-95-658 ICEA S-61-402 ICEA T-29-520	**27161A**	3	**	Bulk	Bulk	—	—	.080	2.03	1.120	28.45	2919	12990	11.2	284.48



**ICEA Method 4 Color Code

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

To Specify:		
12345	A	S
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil® Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a 7 to an 8. For example: 27080A with TC-ER rating becomes 28080A.

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

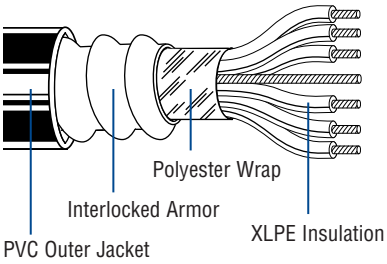
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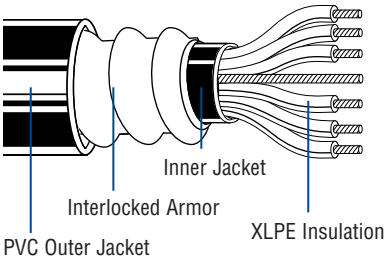
UL Control Cable

600V Type MC Metal Clad and Teck-Style® Cables — Overview

Metal Clad



Teck-Style



Introduction

Belden® Metal Clad (MC) and Teck-Style cables are designed to meet demanding industrial needs by combining rugged durability and corrosion resistance with flexibility and easy handling.

MC and Teck-Style cables are available in a wide range of constructions to meet the needs of pulp and paper, chemical, petroleum and other demanding industrial and resource industry environments. They are ideal for use in wet or dry areas; ventilated, non-ventilated or ladder-type cable troughs; ventilated flexible cableways; and for direct burial. Custom cables are available to meet exacting requirements.

Belden Type MC Cable is marked sunlight-resistant for cable tray use in direct burial designations, and cable constructions are listed to NEC Type MC.

Teck-Style cables are price-competitive, high-performance, UL and CSA dual-rated cables with a flame-retardant XHHW insulated conductor and an inner PVC jacket for mechanical moisture and corrosion protection.

Construction

Class B stranded bare copper conductors, cross-linked polyethylene insulation, bare copper ground wire, standard aluminum or optional galvanized steel interlocking armor, PVC outer jacket.

- Thermoset insulation — XHHW-2 conductors
- NEC conductor temperature 90°C dry and 90°C wet

Voltage Rating

14 AWG — 2 AWG: 600 Volt

Application

Type MC Cable is a general-purpose cable used in the pulp and paper, mining, petroleum and chemical industries as well as in commercial buildings.

MC Cable may be used under the following conditions:

- Exposed or concealed wiring in dry or wet conditions
- In ventilated, non-ventilated or ladder-type cable trays in dry or wet conditions
- On walls or beams
- Directly buried
- Class I and II Div. 2 and Class III Div. 1 and 2 hazardous locations

Minimum Bending Radius

12 times the overall cable diameter

Pulling Tensions

The combined use of Kellems grips and pulling eyes is recommended.

Design Advantages

Insulation Properties

- High tensile strength
- Impact- and crush-resistant
- Heat-resistant
- Excellent elongation
- Moisture-resistant
- Good low temperature properties
- 90°C dry and 90°C wet

Electrical Properties

- High insulation resistance
- Low dielectric loss
- High dielectric strength

Other Features

- Corrosion-resistant
- Versatile and flexible
- Provides cost savings as conduit and ducts are not required

Specifications

- UL 44
- UL 1569
- UL 1685 (UL 1581) Vertical Tray Flame Test (70,000 BTU/hr)

Tech-Style CSA Specifications

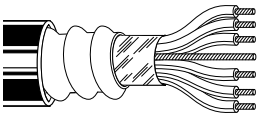
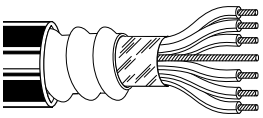
- CSA C22.2 #131
- FT4 Flame Test
- HAZ LOC
- CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

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UL Control Cable

600V Type MC Metal Clad Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part Number		No. of Cond.	Insulation Thickness		Outer Jacket Thickness		Armor OD		Nominal OD		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
14 AWG Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC 	**27243**	**28243**	2	.030	.76	.050	1.27	.48	12.19	.58	14.73	7.3	185.42
	27244	**28244**	3	.030	.76	.050	1.27	.50	12.70	.61	15.49	7.6	193.04
	27245	**28245**	4	.030	.76	.050	1.27	.54	13.72	.64	16.26	7.9	200.66
	27246	**28246**	5	.030	.76	.050	1.27	.57	14.48	.68	17.27	8.4	213.36
	27247	**28247**	6	.030	.76	.050	1.27	.62	15.75	.72	18.29	8.9	226.06
	27248	**28248**	7	.030	.76	.050	1.27	.62	15.75	.72	18.29	8.9	226.06
	27269	**28269**	8	.030	.76	.050	1.27	.69	17.53	.80	20.32	9.4	238.76
	27535	**28535**	9	.030	.76	.050	1.27	.70	17.78	.80	20.32	10.0	254.00
	27249	**28249**	10	.030	.76	.050	1.27	.75	19.05	.85	21.59	10.5	266.70
	27250	**28250**	12	.030	.76	.050	1.27	.77	19.56	.87	22.10	10.8	274.32
	27251	**28251**	15	.030	.76	.050	1.27	.87	22.10	.98	24.89	11.6	294.64
	27969	**28969**	19	.030	.76	.050	1.27	1.00	25.40	1.11	28.19	12.1	307.34
	27252	**28252**	20	.030	.76	.050	1.27	1.03	26.16	1.14	28.96	13.3	337.82
	27270	**28270**	25	.030	.76	.050	1.27	1.10	27.94	1.21	30.73	14.4	365.76
	27253	**28253**	30	.030	.76	.050	1.27	1.18	29.97	1.29	32.77	15.1	383.54
	27292	**28292**	37	.030	.76	.050	1.27	1.14	28.96	1.24	31.50	16.1	408.94
	27433	**28433**	40	.030	.76	.050	1.27	1.28	32.51	1.40	35.56	16.7	424.18
	27434	**28434**	50	.030	.76	.050	1.27	1.40	35.56	1.52	38.61	18.4	467.36
12 AWG Stranded (7x20) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC 	**27254**	**28254**	2	.030	.76	.050	1.27	.52	13.21	.62	15.75	7.8	198.12
	27255	**28255**	3	.030	.76	.050	1.27	.54	13.72	.64	16.26	8.0	203.20
	27256	**28256**	4	.030	.76	.050	1.27	.58	14.73	.68	17.22	8.5	215.90
	27271	**28271**	5	.030	.76	.050	1.27	.62	15.75	.72	18.29	9.1	231.14
	27272	**28272**	6	.030	.76	.050	1.27	.67	17.02	.77	19.56	9.6	243.84
	27273	**28273**	7	.030	.76	.050	1.27	.67	17.02	.77	19.56	9.6	243.84
	27274	**28274**	8	.030	.76	.050	1.27	.77	19.56	.88	22.35	10.2	259.08
	27538	**28538**	9	.030	.76	.050	1.27	.76	19.30	.86	21.84	10.8	274.32
	27275	**28275**	10	.030	.76	.050	1.27	.80	20.32	.91	23.11	11.5	292.10
	27276	**28276**	12	.030	.76	.050	1.27	.84	21.34	.94	23.88	11.7	297.18
	27277	**28277**	15	.030	.76	.050	1.27	.94	23.88	1.05	26.67	13.4	340.36
	27539	**28539**	19	.030	.76	.055	1.40	1.05	26.67	1.16	29.46	14.0	355.60
	27278	**28278**	20	.030	.76	.055	1.40	1.16	29.46	1.27	32.26	14.6	370.84
	27279	**28279**	25	.030	.76	.055	1.40	1.26	32.00	1.37	34.80	15.8	401.32
	27280	**28280**	30	.030	.76	.055	1.40	1.29	32.77	1.40	35.56	16.8	426.72
	27540	**28540**	37	.030	.76	.055	1.40	1.44	36.58	1.55	39.37	17.8	452.12
	27432	**28432**	40	.030	.76	.055	1.40	1.50	38.10	1.63	41.40	18.4	467.36

Color Code: Use ICEA Table E2 with printed numbers.

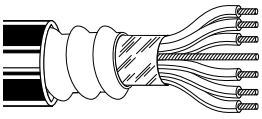
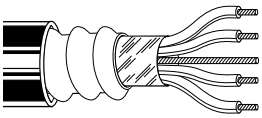
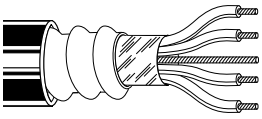
Non-stocked items. Check length available for specific construction. Minimum order may apply.

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UL Control Cable

600V Type MC Metal Clad Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part Number		No. of Cond.	Insulation Thickness		Outer Jacket Thickness		Armor OD		Nominal OD		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
10 AWG Stranded (7x18) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC 	**27257**	**28257**	2	.030	.76	.050	1.27	.56	14.22	.67	17.02	8.4	213.36
	27258	**28258**	3	.030	.76	.050	1.27	.58	14.73	.69	17.53	8.6	218.44
	27259	**28259**	4	.030	.76	.050	1.27	.62	15.75	.74	18.80	9.2	233.68
	27281	**28281**	5	.030	.76	.050	1.27	.68	17.27	.79	20.07	12.8	325.12
	27282	**28282**	6	.030	.76	.050	1.27	.74	18.80	.84	21.34	10.4	264.16
	27283	**28283**	7	.030	.76	.050	1.27	.74	18.80	.84	21.34	10.4	264.16
	27284	**28284**	8	.030	.76	.050	1.27	.81	20.57	.92	23.37	11.2	284.48
	27541	**28541**	9	.030	.76	.050	1.27	.87	22.10	.98	24.89	11.8	299.72
	27285	**28285**	10	.030	.76	.050	1.27	.89	22.61	1.03	26.16	13.3	337.82
	27286	**28286**	12	.030	.76	.050	1.27	1.01	25.65	1.12	28.45	13.7	347.98
	27287	**28287**	15	.030	.76	.050	1.27	1.09	27.69	1.22	30.99	14.8	375.92
	27288	**28288**	20	.030	.76	.055	1.40	1.22	30.99	1.35	34.29	16.2	411.48
	27289	**28289**	25	.030	.76	.055	1.40	1.32	33.53	1.47	37.34	17.8	452.12
	27290	**28290**	30	.030	.76	.055	1.40	1.42	36.07	1.55	39.37	18.6	472.44
8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC 	**27291**	**28291**	2	.045	1.14	.050	1.27	.70	17.78	.81	20.57	9.8	248.92
	27260	**28260**	3	.045	1.14	.050	1.27	.72	18.29	.82	20.83	10.2	259.08
	27261	**28261**	4	.045	1.14	.050	1.27	.78	19.81	.88	22.35	10.9	276.86
6 AWG Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC 	**27293**	**28293**	2	.045	1.14	.050	1.27	.76	19.30	.87	22.10	10.7	271.78
	27262	**28262**	3	.045	1.14	.050	1.27	.80	20.32	.90	22.86	11.2	284.48
	27263	**28263**	4	.045	1.14	.050	1.27	.87	22.10	.97	24.64	12.1	307.34

Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.
For sizes 8 and larger, use ICEA Method 4 with printed numbers.

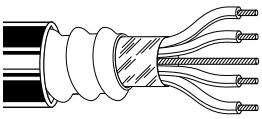
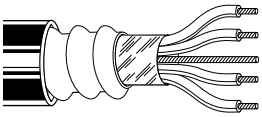
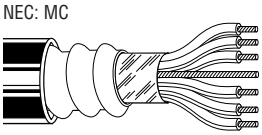
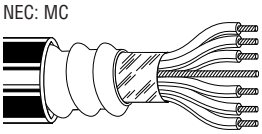
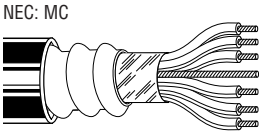
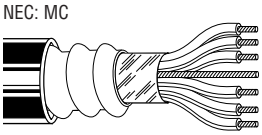
Non-stocked items. Check length available for specific construction. Minimum order may apply.

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UL Control Cable

600V Type MC Metal Clad Cables
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part Number		No. of Cond.	Insulation Thickness		Outer Jacket Thickness		Armor OD		Nominal OD		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
4 AWG Stranded (7x12) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC	**27264**	**28264**	3	.045	1.14	.050	1.27	.90	22.86	1.00	25.40	13.1	332.74
	**27265**	**28265**	4	.045	1.14	.050	1.27	1.97	50.04	1.08	27.43	14.2	360.68
2 AWG Stranded (7x10) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC	**27267**	**28267**	3	.045	1.14	.050	1.27	1.02	25.91	1.13	28.70	14.7	373.38
	**27268**	**28268**	4	.045	1.14	.050	1.27	1.11	28.19	1.22	30.99	16.0	406.40
Composite 14 AWG (7x22) **and 12 AWG** (7x20) Stranded Bare Copper Conductors • 12 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC	**27428**	**28428**	3c/14 3c/12	.030 .030	.76 .76	.050	1.27	.70	17.78	.81	20.57	9.7	246.38
													
Composite 14 AWG (7x22) **and 10 AWG** (7x18) Stranded Bare Copper Conductors • 10 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC	**27429**	**28429**	3c/14 3c/10	.030 .030	.76 .76	.050	1.27	.74	18.80	.85	21.59	10.2	259.08
													
Composite 14 AWG (7x22) **and 8 AWG** (7x16) Stranded Bare Copper Conductors • 10 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC	**27430**	**28430**	3c/14 3c/8	.030 .045	.76 1.14	.050	1.27	.83	21.08	.94	23.88	11.2	284.48
													
Composite 14 AWG (7x22) **and 6 AWG** (7x14) Stranded Bare Copper Conductors • 8 AWG Bare Copper Ground Wire													
Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
NEC: MC	**27431**	**28431**	3c/14 3c/6	.030 .045	.76 1.14	.050	1.27	.89	22.61	1.01	25.65	12.0	304.80
													

Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.
For sizes 8 and larger, use ICEA Method 4 with printed numbers.

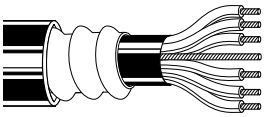
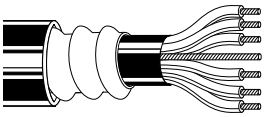
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UL Control Cable

600V Teck-Style® Cables
Dual-Rated Type MC/Teck 90

Description	Part Number		No. of Cond.	Insulation Thickness		Inner Jacket OD		Armor OD		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
14 AWG Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27840**	**28840**	2	.030	.76	.37	9.40	.56	14.22	.67	17.02	66	294	8.0	203
	**27841**	**28841**	3	.030	.76	.39	9.91	.58	14.73	.69	17.53	98	436	8.3	211
	27842	**28842**	4	.030	.76	.43	10.92	.62	15.75	.73	18.54	131	583	8.7	221
	27843	**28843**	5	.030	.76	.47	11.94	.66	16.76	.77	19.56	164	730	9.2	234
	27844	**28844**	6	.030	.76	.51	12.95	.70	17.78	.81	20.57	191	850	9.7	246
	27845	**28845**	7	.030	.76	.51	12.95	.70	17.78	.81	20.57	225	1001	9.7	246
	27846	**28846**	8	.030	.76	.58	14.73	.77	19.56	.88	22.35	260	1157	10.5	267
	27847	**28847**	10	.030	.76	.67	17.02	.93	23.62	1.04	26.42	321	1428	12.5	318
	27848	**28848**	12	.030	.76	.69	17.53	.95	24.13	1.06	26.92	388	1726	10.9	277
	27849	**28849**	15	.030	.76	.77	19.56	1.03	26.16	1.14	28.96	481	2140	13.7	348
	27850	**28850**	20	.030	.76	.86	21.84	1.12	28.45	1.23	31.24	649	2887	15.3	389
	27851	**28851**	25	.030	.76	.92	23.37	1.18	29.97	1.30	33.02	810	3603	16.3	414
	27852	**28852**	30	.030	.76	.98	24.89	1.24	31.50	1.36	34.54	975	4337	17.0	432
CSA C22.2 #131 FT4 Flame Test, HAZ LOC	**27885**	**28885**	40	.030	.76	1.09	27.69	1.35	34.29	1.47	37.34	1301	5787	18.5	470
CSA C22.2 #0.3 Clause 4.31 Low Acid Gas	**27886**	**28886**	50	.030	.76	1.19	30.23	1.45	36.83	1.57	39.88	1630	7251	19.8	503
12 AWG Stranded (7x20) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27853**	**28853**	2	.030	.76	.41	10.41	.60	15.24	.71	18.03	104	463	8.5	216
	**27854**	**28854**	3	.030	.76	.43	10.92	.62	15.75	.73	18.54	156	694	8.8	224
	27855	**28855**	4	.030	.76	.47	11.94	.66	16.76	.77	19.56	207	921	9.2	234
	27856	**28856**	5	.030	.76	.52	13.21	.71	18.03	.82	20.83	260	1157	9.8	249
	27857	**28857**	6	.030	.76	.59	14.99	.78	19.81	.89	22.61	310	1379	10.7	272
	27858	**28858**	7	.030	.76	.59	14.99	.78	19.81	.89	22.61	361	1606	10.7	272
	27859	**28859**	8	.030	.76	.64	16.26	.83	21.08	.94	23.88	415	1846	11.3	287
	27860	**28860**	10	.030	.76	.75	19.05	1.01	25.65	1.12	28.45	520	2313	13.4	340
	27861	**28861**	12	.030	.76	.77	19.56	1.03	26.16	1.14	28.96	619	2753	13.7	348
	27862	**28862**	15	.030	.76	.87	22.10	1.13	28.70	1.25	31.75	718	3194	15.0	381
	27863	**28863**	20	.030	.76	.96	24.38	1.22	30.99	1.33	33.78	1040	4626	15.9	404
	27864	**28864**	25	.030	.76	1.04	26.42	1.30	33.02	1.42	36.07	1301	5787	17.0	432
CSA C22.2 #131 FT4 Flame Test, HAZ LOC	**27865**	**28865**	30	.030	.76	1.15	29.21	1.41	35.81	1.53	38.86	1560	6939	18.3	465
CSA C22.2 #0.3 Clause 4.31 Low Acid Gas	**27887**	**28887**	40	.030	.76	1.20	30.48	1.54	39.12	1.67	42.42	2020	8985	20.0	508

Color Code: Use ICEA Table E2 with printed numbers.

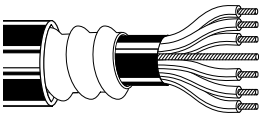
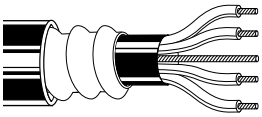
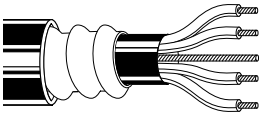
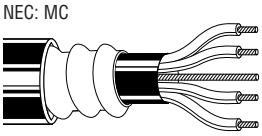
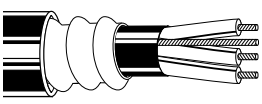
Non-stocked items. Check length available for specific construction. Minimum order may apply.

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UL Control Cable

600V Teck-Style® Cables
Dual-Rated Type MC/Teck 90

Description	Part Number		No. of Cond.	Insulation Thickness		Inner Jacket OD		Armor OD		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
10 AWG Stranded (7x18) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27866**	**28866**	2	.030	.76	.46	11.68	.65	16.51	.74	18.80	166	738	9.1	231
	**27867**	**28867**	3	.030	.76	.48	12.19	.67	17.02	.77	19.56	249	1108	9.4	239
	27868	**28868**	4	.030	.76	.56	14.22	.75	19.05	.84	21.34	330	1468	10.3	262
	27869	**28869**	5	.030	.76	.67	17.02	.86	21.84	.96	24.38	415	1846	11.6	295
	27870	**28870**	6	.030	.76	.67	17.02	.86	21.84	.96	24.38	491	2184	11.6	295
	27877	**28877**	7	.030	.76	.70	17.78	.90	22.86	1.00	25.40	560	2491	12.1	307
	27878	**28878**	8	.030	.76	.75	19.05	.95	24.13	1.05	26.67	640	2847	12.7	323
	27879	**28879**	10	.030	.76	.78	19.81	1.04	26.42	1.15	29.21	801	3563	13.8	351
	27880	**28880**	12	.030	.76	.89	22.61	1.15	29.21	1.26	32.00	960	4270	15.1	384
	27881	**28881**	15	.030	.76	.93	23.62	1.19	30.23	1.30	33.02	1195	5316	15.6	396
	27882	**28882**	20	.030	.76	1.06	26.92	1.32	33.53	1.44	36.58	1600	7117	17.3	439
CSA C22.2 #131 FT4 Flame Test, HAZ LOC CSA C22.2 #0.3 Clause 4.31 Low Acid Gas	**27883**	**28883**	25	.030	.76	1.12	28.45	1.44	36.58	1.58	40.13	1990	8852	19.0	483
	27884	**28884**	30	.030	.76	1.28	32.51	1.54	39.12	1.67	42.42	2355	10476	20.0	508
8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27871**	**28871**	2	.045	1.14	.59	14.99	.78	19.81	.89	22.61	264	1174	10.7	272
	**27872**	**28872**	3	.045	1.14	.62	15.75	.81	20.57	.91	23.11	396	1762	10.9	277
	27873	**28873**	4	.045	1.14	.68	17.27	.94	23.88	1.05	26.67	528	2349	12.6	320
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas															
6 AWG Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27874**	**28874**	2	.060	1.52	.71	18.03	.97	24.64	1.08	27.43	420	1868	13.0	330
	**27875**	**28875**	3	.060	1.52	.76	19.30	1.02	25.91	1.13	28.70	630	2802	13.5	343
	27876	**28876**	4	.060	1.52	.88	22.35	1.14	28.96	1.25	31.75	840	3737	15.0	381
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas															
4 AWG Stranded (7x12) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27894**	**28894**	3	.060	1.52	.91	23.11	1.17	29.72	1.29	32.77	1002	4457	15.5	394
	**27895**	**28895**	4	.060	1.52	.99	25.15	1.25	31.75	1.37	34.80	1335	5938	16.4	417
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas															
3 AWG Stranded (7x11) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27896**	**28896**	3	.060	1.52	.96	24.38	1.22	30.99	1.33	33.78	1263	5618	16.0	406
															
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas															

Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.
For sizes 8 and larger, use ICEA Method 4 with printed numbers.

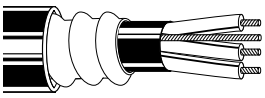
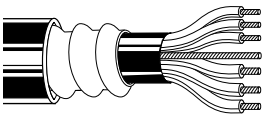
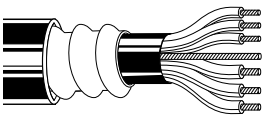
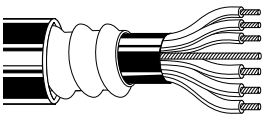
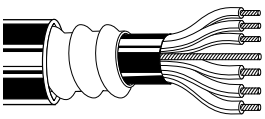
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UL Control Cable

600V Teck-Style® Cables
Dual-Rated Type MC/Teck 90

Description	Part Number		No. of Cond.	Insulation Thickness		Inner Jacket OD		Armor OD		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
2 AWG Stranded (7x10) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27888**	**28888**	3	.060	1.52	1.08	27.43	1.28	32.51	1.40	35.56	1593	7086	16.8	427
	**27889**	**28889**	4	.060	1.52	1.12	28.45	1.38	35.05	1.50	38.10	2124	9448	18.0	457
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas															
Composite 14 AWG (7x22) **and 12 AWG** (7x20) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27890**	**28890**	3c/14	.030	.76	.56	14.22	.75	19.05	.86	21.84	202	899	10.3	262
			3c/12	.030	.76										
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas															
Composite 14 AWG (7x22) **and 10 AWG** (7x18) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27891**	**28891**	3c/14	.030	.76	.61	15.49	.80	20.32	.91	23.11	305	1357	10.9	277
			3c/10	.030	.76										
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas															
Composite 14 AWG (7x22) **and 8 AWG** (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27892**	**28892**	3c/14	.045	1.14	.70	17.78	.96	24.38	1.07	27.18	435	1935	12.8	325
			3c/8	.030	.76										
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas															
Composite 14 AWG (7x22) **and 6 AWG** (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire															
Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket															
NEC: MC	**27893**	**28893**	3c/14	.060	1.52	.90	22.86	1.15	29.21	1.26	32.00	655	2914	15.1	384
			3c/6	.030	.76										
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas															

Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.
For sizes 8 and larger, use ICEA Method 4 with printed numbers.

Non-stocked items. Check length available for specific construction. Minimum order may apply.

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CSA Instrumentation & Thermocouple Tray Cable

300V TC/CIC

Paired and Triad Constructions

Cable Specifications

- CSA C22.2 #239 Control and Instrumentation
- CSA C22.2 #230 Type TC
- CSA FT4 70,000 BTU Flame Test
- PVC Insulation 90°C Dry & 75°C Wet
- XLPE Insulation Optional 90°C Dry and Wet
- -40°C Cold Bend, -25°C Cold Impact
- -25°C Installation temp
- Per CEC Part 1, Suitable for use in hazardous locations:
  Class 1 – Zone 2
  Class 2 – Division 2
- Sun Res/UV resistant
- Direct Burial

To Create a Part Number

Add suffixes for Conductor, Insulation and Jacket Type and Shielding as shown below:

A = Bare Copper Conductor or Thermocouple alloy, PVC insulation, PVC Jacket

B = Tinned Copper Conductor, PVC Insulation, PVC Jacket

C = Bare Copper Conductor or Thermocouple alloy, XLPE Insulation, PVC Jacket

D = Tinned Copper Conductor, XLPE Insulation, PVC Jacket

---

1 = Overall Foil Shield + Drain Wire

2 = Individual and Overall Foil Shield + Drain Wire

Sample Part Number:

22001B2 = 300V, 2-Pair 20 AWG Tinned Copper Conductor cable with PVC Insulation, PVC Jacket, with Individual and Overall Foil Shields plus Drain Wire

Thermocouple Color Codes

ANSI Symbol	Jacket Color	Insulation Color Code	
		Positive (+)	Negative (-)
EX	Purple	Purple	Red
JX	Black	White	Red
KX	Yellow	Yellow	Red
TX	Blue	Blue	Red

Copper Color Codes

Pairs/Triads	Color Combination
Pairs	Black & White
Triads	Black, White & Red

No. of Pairs	Part Numbers				
	7 Strand Copper	Solid EX Chromel/ Constantan	Solid JX Iron/ Constantan	Solid KX Chromel/ Alumel	Solid TX Copper/ Constantan
20 AWG					
1	22000	21100	21114	21128	21142
2	22001	21101	21115	21129	21143
4	22002	21102	21116	21130	21144
6	22003	21103	21117	21131	21145
8	22004	21104	21118	21132	21146
10	22005	21105	21119	21133	21147
12	22006	21106	21120	21134	21148
16	22007	21107	21121	21135	21149
20	22008	21108	21122	21136	21150
24	22009	21109	21123	21137	21151
30	22010	21110	21124	21138	21152
36	22011	21111	21125	21139	21153
40	22012	21112	21126	21140	21154
50	22013	21113	21127	21141	21155
18 AWG					
1	22027	21156	21170	21184	21198
2	22028	21157	21171	21185	21199
4	22029	21158	21172	21186	21200
6	22030	21159	21173	21187	21201
8	22031	21160	21174	21188	21202
10	22032	21161	21175	21189	21203
12	22033	21162	21176	21190	21204
16	22034	21163	21177	21191	21205
20	22035	21164	21178	21192	21206
24	22036	21165	21179	21193	21207
30	22037	21166	21180	21194	21208
36	22038	21167	21181	21195	21209
40	22039	21168	21182	21196	21210
50	22040	21169	21183	21197	21211
16 AWG					
1	22054	21212	21226	21240	21254
2	22055	21213	21227	21241	21255
4	22056	21214	21228	21242	21256
6	22057	21215	21229	21243	21257
8	22058	21216	21230	21244	21258
10	22059	21217	21231	21245	21259
12	22060	21218	21232	21246	21260
16	22061	21219	21233	21247	21261
20	22062	21220	21234	21248	21262
24	22063	21221	21235	21249	21263
30	22064	21222	21236	21250	21264
36	22065	21223	21237	21251	21265
40	22066	21224	21238	21252	21266
50	22067	21225	21239	21253	21267

Triad Constructions, Copper Conductor

No. of Triads	Part Numbers		
	20 AWG (7 Strand)	18 AWG (7 Strand)	16 AWG (7 Strand)
1	22014	22041	22068
2	22015	22042	22069
4	22016	22043	22070
6	22017	22044	22071
8	22018	22045	22072
10	22019	22046	22073
12	22020	22047	22074
16	22021	22048	22075
20	22022	22049	22076
24	22023	22050	22077
30	22024	22051	22078
36	22025	22052	22079

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CSA Instrumentation Cable

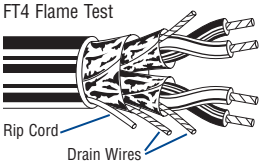
300V CIC

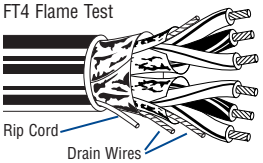
Belden offers a complete line of high performance and high quality CSA certified instrumentation cables (300V/600V and CIC/ACIC). These cables are designed to minimize noise and signal interference to deliver clean signals in harsh petrochemical, pulp and paper and process industry environments, as well as for use in general manufacturing operations.

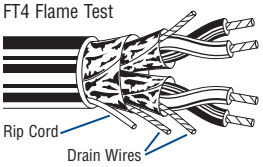
Contact Belden Customer Service for other options:

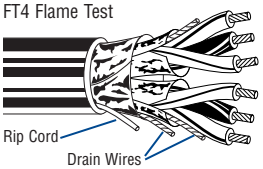
- 150V
- XLPE insulation (add D suffix to part number)
- Thermocouple alloy conductors
- Overall foil shield only
- Other pair and triad counts

Description	Part Number	No. of Pairs or Triads	Cable Weight		Jacket Thickness		Nominal OD	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm
20 AWG Pairs Stranded (7x28) TC Conductors • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black and White with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2 #0.3 Clause 4.31 Low Acid Gas FT4 Flame Test	**22671***	1	71	106	.045	1.14	.260	6.60
	22638	2	143	213	.045	1.14	.400	10.16
	22639	4	217	323	.045	1.14	.460	11.68
	22640	6	320	476	.045	1.14	.570	14.48
	22641	8	405	603	.060	1.52	.610	15.49
	22676	12	573	853	.060	1.52	.730	18.54
	22643	16	722	1076	.060	1.52	.810	20.57
	22647	24	1103	1641	.080	2.03	1.040	26.42
-25°C Installed -40°C to +105°C (Dry) (75°C Wet)	**22670**	36	1548	2304	.080	2.03	1.190	30.23
20 AWG Triads Stranded (7x28) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black, White and Red with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2 #0.3 Clause 4.31 Low Acid Gas FT4 Flame Test	**22660***	1	89	132	.045	1.14	.270	6.86
	22662	2	177	263	.045	1.14	.420	10.67
	22663	4	277	412	.045	1.14	.490	12.45
	22672	8	521	775	.060	1.52	.650	16.51
	22673	16	1000	1488	.080	2.03	.910	23.11
-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)	**22674**	24	1414	2104	.080	2.03	1.110	28.19
18 AWG Pairs Stranded (7x26) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black and White with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2 #0.3 Clause 4.31 Low Acid Gas FT4 Flame Test	**22645***	1	97	144	.045	1.14	.300	7.62
	22633	2	196	292	.045	1.14	.480	12.19
	22648	4	338	503	.045	1.14	.580	14.73
	22634	6	473	704	.060	1.52	.670	17.02
	22635	8	570	848	.060	1.52	.730	18.54
	22636	12	869	1293	.060	1.52	.920	23.37
	22654	16	1095	1630	.080	2.03	1.020	25.91
-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)	**22637**	24	1552	2310	.080	2.03	1.260	32.00
18 AWG Triads Stranded (7x26) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black, White and Red with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2 #0.3 Clause 4.31 Low Acid Gas FT4 Flame Test	**22677***	1	121	180	.045	1.14	.303	7.70
	22678	2	256	381	.045	1.14	.480	12.19
	22679	4	427	636	.060	1.52	.620	15.75
	22680	8	597	888	.060	1.52	.710	18.03
	22681	16	740	1101	.060	1.52	.770	19.56
	22682	24	1130	1682	.080	2.03	.980	24.89
	22683	16	1436	2137	.080	2.03	1.090	27.69
-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)	**22684**	24	2049	3049	.080	2.03	1.340	34.04









*One pair/triad cables have one shield and drain wire

TC = Tinned Copper

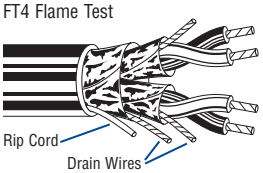
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

CSA Instrumentation Cable

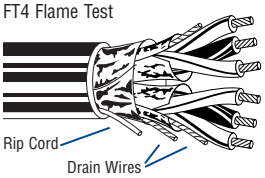
300V CIC

Description	Part Number	No. of Pairs or Triads	Cable Weight		Jacket Thickness		Nominal OD	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm
16 AWG Pairs Stranded (7x24) TC Conductors • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black and White with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2 #0.3 Clause 4.31 Low Acid Gas FT4 Flame Test	**22646***	1	122	182	.045	1.14	.320	8.13
	22628	2	262	390	.045	1.14	.520	13.21
	22629	4	438	652	.060	1.52	.628	15.95
	22630	6	603	897	.060	1.52	.740	18.80
	22631	8	752	1119	.060	1.52	.800	20.32
	22632	12	1148	1708	.080	2.03	1.010	25.65
	22685	16	1461	2174	.080	2.03	1.120	28.45
	22686	24	2091	3112	.080	2.03	1.380	35.05



-25°C Installed
-40°C to +105°C (Dry) (75°C Wet)

Description	Part Number	No. of Pairs or Triads	Cable Weight		Jacket Thickness		Nominal OD	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm
16 AWG Triads Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black, White and Red with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2 #0.3 Clause 4.31 Low Acid Gas FT4 Flame Test	**22603***	1	152	226	.045	1.14	.329	8.36
	22687	2	344	512	.045	1.14	.580	14.73
	22675	4	564	839	.060	1.52	.670	17.02
	22688	6	819	1219	.060	1.52	.780	19.81
	22689	8	1063	1582	.080	2.03	.940	23.88
	22690	12	1524	2268	.080	2.03	1.080	27.43



-25°C Installed
-40°C to +105°C (Dry) (75°C Wet)

TC = Tinned Copper

*One pair/triad cables have one shield and drain wire

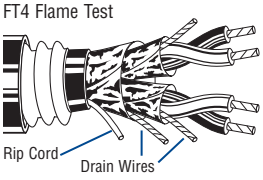
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CSA Instrumentation Cable

300V ACIC Armored Cables

Description	Part No.		No. of Pairs/ Triads	Cable Weight Aluminum Armor		Cable Weight Steel Armor		Insulation Thickness		Nominal OD Inner Jacket		Nominal OD Outer Jacket	
	Aluminum Armor	Steel Armor		Lbs./ 1000 Ft.	kg/km	Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm
20 AWG Pairs Stranded (7x28) TC Cond. • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage) • Drain Wires													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC CSA C22.2#174, HLABCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**23543****	**26530****	1	140	208	230	342	.020	.51	.26	6.6	.56	14.2
	23534	**26531**	2	206	307	325	484	.020	.51	.40	10.2	.70	17.8
	23514	**26532**	4	255	379	390	580	.020	.51	.46	11.7	.76	19.3
	23513	**26533**	6	297	442	494	735	.020	.51	.57	14.5	.88	22.4
	23503	**26534**	8	361	537	563	840	.020	.51	.63	16.0	.92	23.4
	23521	**26535**	12	480	714	694	1033	.020	.51	.75	19.1	1.06	26.9
	23532	**26536**	16	600	893	900	1339	.020	.51	.79	20.1	1.16	29.5
	23506	**26537**	24	800	1191	1175	1749	.020	.51	1.05	26.7	1.42	36.1
	23544	**26538**	36	1050	1563	1500	2232	.020	.51	1.14	29.0	1.57	39.9
	23575	**26546**	50	1468	2185	2010	2991	.020	.51	1.37	34.8	1.75	44.5

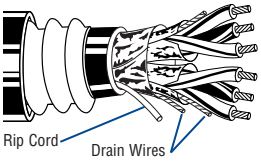


-25°C Installed
-40°C to +105°C (Dry) (75°C Wet)

20 AWG Triads Stranded (7x28) TC Cond. • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage) • Drain Wires

Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket

CSA C22.2#239, Type ACIC CSA C22.2#174, HLBCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas, FT4 Flame Test	**23545****	**26539****	1	139	207	235	350	.020	.51	.27	6.9	.57	14.5
	23546	**26540**	2	210	313	345	513	.020	.51	.43	10.9	.73	18.5
	23547	**26541**	4	270	402	425	632	.020	.51	.50	12.7	.80	20.3
	23548	**26542**	8	444	661	650	967	.020	.51	.69	17.5	1.00	25.4
	23571	**26553**	12	632	941	970	1444	.020	.51	.82	20.8	1.24	31.5
	23549	**26543**	16	740	1101	1090	1622	.020	.51	.91	23.1	1.28	32.5
	23550	**26544**	24	990	1473	1360	2024	.020	.51	1.11	28.2	1.48	37.6

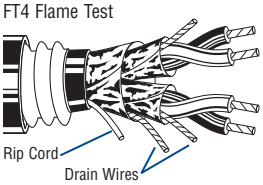


-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

18 AWG Pairs Stranded (7x26) TC Cond. • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage) • Drain Wires

Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket

CSA C22.2#239, Type ACIC CSA C22.2#174, HLABCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**23533****	**26514****	1	160	238	258	384	.025	.64	.30	7.6	.60	15.2
	23511	**26515**	2	247	368	384	572	.025	.64	.48	12.2	.78	19.8
	23530	**26516**	4	340	506	500	744	.025	.64	.58	14.7	.88	22.4
	23528	**26517**	6	420	625	644	958	.025	.64	.67	17.0	.98	24.9
	23531	**26518**	8	543	808	827	1230	.025	.64	.73	18.5	1.03	26.2
	23524	**26519**	12	725	1079	1045	1555	.025	.64	.90	22.9	1.28	32.5
	23519	**26520**	16	850	1265	1210	1801	.025	.64	.99	25.1	1.37	34.8
	23542	**26521**	24	1100	1637	1510	2247	.025	.64	1.24	31.5	1.63	41.4
	23554	**26555**	36	1465	2180	1960	2917	.025	.64	1.41	35.8	1.80	45.7

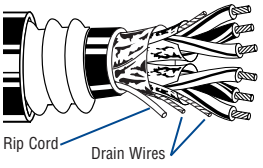


-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

18 AWG Triads Stranded (7x26) TC Cond. • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage) • Drain Wires

Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket

CSA C22.2#239, Type ACIC CSA C22.2#174, HLBCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas, FT4 Flame Test	**23505****	**26522****	1	175	260	275	409	.025	.64	.33	8.4	.61	15.5
	23516	**26523**	2	275	409	417	621	.025	.64	.51	13.0	.81	20.6
	23515	**26524**	4	385	573	555	826	.025	.64	.62	15.7	.93	23.6
	23508	**26525**	6	535	796	780	1161	.025	.64	.75	19.1	1.11	28.2
	23523	**26526**	8	680	1012	995	1481	.025	.64	.81	20.6	1.18	30.0
	23512	**26527**	12	916	1363	1215	1808	.025	.64	1.03	26.2	1.40	35.6
	23537	**26528**	16	1020	1518	1400	2083	.025	.64	1.13	28.7	1.50	38.1
	23536	**26529**	24	1335	1987	1775	2642	.025	.64	1.37	34.8	1.80	45.7



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

Color Code: Pairs — Black and White with Numbers.
Triads — Black, White and Red with Numbers.

TC = Tinned Copper

*Note: Add D suffix for XLPE insulation. Example: 23543D.
**One pair/triad cables have one foil shield and drain wire

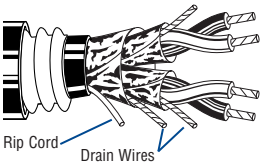
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CSA Instrumentation Cable

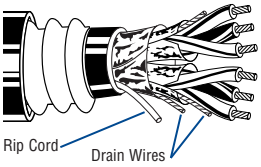
300V ACIC Armored Cables

Description	Part No.		No. of Pairs/ Triads	Cable Weight Aluminum Armor		Cable Weight Steel Armor		Insulation Thickness		Nominal OD Inner Jacket		Nominal OD Outer Jacket	
	Aluminum Armor	Steel Armor		Lbs./ 1000 Ft.	kg/km	Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm
16 AWG Pairs Stranded (7x24) TC Conductors • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC CSA C22.2#174, HLABCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**23501****	**26500****	1	175	260	280	417	.025	.64	.33	8.4	.62	15.8
	23527	**26501**	2	280	417	425	635	.025	.64	.52	13.2	.81	20.6
	23509	**26503**	4	395	588	570	848	.025	.64	.63	16.0	.93	23.6
	23500	**26504**	6	510	759	715	1064	.025	.64	.73	18.5	1.03	26.2
	23510	**26505**	8	625	930	910	1354	.025	.64	.79	20.1	1.16	29.5
	23525	**26506**	12	875	1302	1230	1831	.025	.64	1.00	25.4	1.37	34.8
	23539	**26507**	16	1054	1569	1445	2151	.025	.64	1.12	28.2	1.48	37.6
	23538	**26508**	24	1397	2079	1840	2738	.025	.64	1.36	34.5	1.75	44.5
	23568	**26551**	36	1920	2857	2460	3661	.025	.64	1.60	40.6	1.97	50.0



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

16 AWG Triads Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC CSA C22.2#174, HLBCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**23507****	**26502****	1	190	282	295	439	.025	.64	.35	8.9	.63	16.0
	23522	**26509**	2	342	508	500	744	.025	.64	.58	14.7	.90	22.9
	23520	**26510**	4	450	670	640	953	.025	.64	.68	17.3	.95	24.1
	23529	**26511**	6	650	967	928	1381	.025	.64	.78	19.8	1.19	30.2
	23526	**26512**	8	825	1228	1130	1682	.025	.64	.93	23.6	1.30	33.0
	23541	**26513**	12	1082	1610	1511	2249	.025	.64	1.13	28.7	1.50	38.1
	23567	**26545**	16	1285	1912	1705	2537	.025	.64	1.25	31.8	1.64	41.7
	23578	**26547**	24	1725	2567	2200	3274	.025	.64	1.58	40.1	1.95	49.5



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

TC = Tinned Copper

*Note: Add D suffix for XLPE insulation. Example: 23501D.
**One pair/triad cables have one foil shield and drain wire

Color Code: Pairs — Black and White with Numbers.
Triads — Black, White and Red with Numbers.

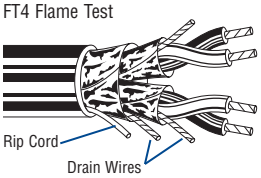
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CSA Instrumentation Cable

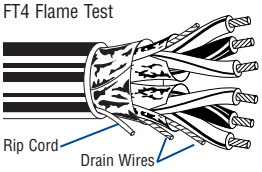
600V CIC

Description	Part Number	No. of Pairs or Triads	Cable Weight		Jacket Thickness		Nominal OD	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm
18 AWG Pairs Stranded (7x26) TC Conductors • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black and White with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22417***	1	109	162	.045	1.14	.32	8.13
	22405	2	229	341	.045	1.14	.51	12.95
	22404	4	374	557	.060	1.52	.63	16.00
	22418	8	632	941	.060	1.52	.79	20.07
	22421	12	970	1444	.080	2.03	1.00	25.40
	22419	24	1741	2591	.080	2.03	1.36	34.54



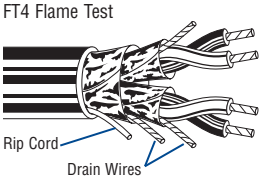
-25°C Installed
-40°C to +105°C (Dry) (75°C Wet)

18 AWG Triads Stranded (7x26) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black, White and Red with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22442***	1	131	195	.045	1.14	.34	8.64
	22443	2	299	445	.060	1.52	.58	14.73
	22444	4	476	708	.060	1.52	.68	17.27
	22445	8	893	1329	.080	2.03	.88	22.35



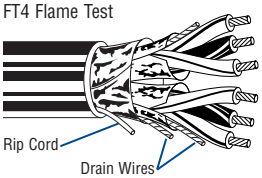
-25°C Installed
-40°C to +105°C (Dry) (75°C Wet)

16 AWG Pairs Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black and White with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22416***	1	129	192	.045	1.14	.34	8.64
	22409	2	229	341	.045	1.14	.59	14.99
	22410	4	469	698	.060	1.52	.68	17.27
	22446	6	667	993	.060	1.52	.79	20.07
	22411	8	841	1252	.080	2.03	.90	22.86
	22412	12	1235	1838	.080	2.03	1.09	27.69
	22447	24	2250	3349	.080	2.03	1.49	37.85



-25°C Installed
-40°C to +105°C (Dry) (75°C Wet)

16 AWG Triads Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black, White and Red with Numbers)								
CSA C22.2#239, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22413***	1	167	249	.045	1.14	.36	9.14
	22448	2	372	554	.045	1.14	.62	15.88
	22414	4	606	902	.060	1.52	.72	18.29
	22415	8	1144	1703	.080	2.03	.96	24.38



-25°C Installed
-40°C to +105°C (Dry) (75°C Wet)

TC = Tinned Copper

*One pair/triad cables have one foil shield and drain wire

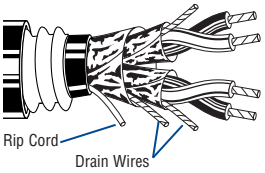
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CSA Instrumentation Cable

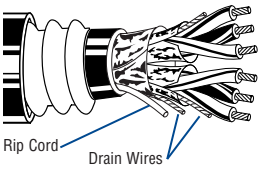
600V ACIC Armored Cables

Description	Part No.		No. of Pairs/ Triads	Cable Weight Aluminum Armor		Cable Weight Steel Armor		Insulation Thickness		Nominal OD Inner Jacket		Nominal OD Outer Jacket	
	Aluminum Armor	Steel Armor		Lbs./ 1000 Ft.	kg/km	Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm
18 AWG Pairs Stranded (7x26) TC Cond. • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC CSA C22.2#174, HLABCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas, FT4 Flame Test	**24511****	**25506****	1	154	229	257	382	.030	.76	.32	8.13	.61	15.49
	24512	**25514**	2	238	354	387	575	.030	.76	.51	12.95	.82	20.83
	24513	**25503**	4	335	499	504	750	.030	.76	.63	16.00	.93	23.62
	24514	**25505**	8	536	798	829	1233	.030	.76	.79	20.27	1.15	29.21
	24515	**25501**	12	739	1100	1092	1624	.030	.76	1.00	25.40	1.36	34.54
	24520	**25517**	24	1169	1740	1674	2490	.030	.76	1.36	34.54	1.75	44.45



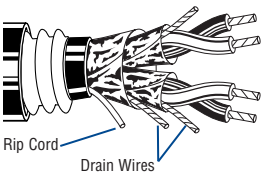
-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

18 AWG Triads Stranded (7x26) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC CSA C22.2#174, HLBCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas, FT4 Flame Test	**24516****	**25500****	1	166	247	276	411	.030	.76	.34	8.64	.63	16.00
	24517	**25522**	2	293	436	455	677	.030	.76	.58	14.73	.89	22.61
	24518	**25520**	4	391	582	572	851	.030	.76	.66	16.76	.99	25.15
	24519	**25523**	8	673	1002	988	1470	.030	.76	.88	22.35	1.29	32.77



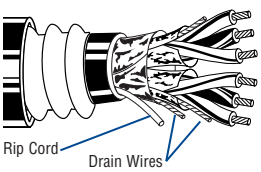
-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

16 AWG Pairs Stranded (7x24) TC Cond. • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC CSA C22.2#174, HLABCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas, FT4 Flame Test	**24500****	**25504****	1	171	254	279	415	.030	.76	.34	8.64	.64	16.26
	24505	**25510**	2	299	445	455	677	.030	.76	.59	14.99	.89	22.61
	24502	**25511**	4	450	670	583	868	.030	.76	.68	17.27	.98	24.89
	24506	**25512**	6	576	857	880	1310	.030	.76	.79	20.07	1.16	29.46
	24503	**25513**	8	679	1010	1005	1496	.030	.76	.90	22.86	1.27	32.26
	24504	**25518**	12	908	1351	1280	1905	.030	.76	1.09	27.69	1.46	37.08
	24510	**25519**	24	1502	2235	2030	3021	.030	.76	1.49	37.85	1.88	47.75



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

16 AWG Triads Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC CSA C22.2#174, HLBCD CSA C22.2#0.3, Clause 4.31 Low Acid Gas, FT4 Flame Test	**24501****	**25502****	1	195	290	309	460	.030	.76	.36	9.14	.66	16.76
	24507	**25507**	2	339	505	465	692	.030	.76	.62	15.75	.94	23.88
	24508	**25509**	4	464	691	793	1180	.030	.76	.72	18.29	1.05	26.67
	24509	**25508**	8	807	1201	1250	1860	.030	.76	.96	24.38	1.33	33.78



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

Color Code: Pairs — Black and White with Numbers.
Triads — Black, White and Red with Numbers.

TC = Tinned Copper

*Note: Add D suffix for XLPE insulation. Example: 24511D.
**One pair/triad cables have one foil shield and drain wire

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CSA Control and Power Cable

600V and 1000V TC/CIC Multi-conductor Cables

Cable Specifications

- CSA C22.2 #230 Type TC
- CSA C22.2 #239 Control and Instrumentation (600V only)
- CSA C22.2 #38 Type TC (1000V only)
- CSA FT4 70,000 BTU Flame Test
- 90°C Dry & Wet
- -40°C Cold Bend, -25°C Cold Impact
- -25°C Installation temp
- Per CEC Part 1, Suitable for use in hazardous locations:
  Class 1 — Zone 2
  Class 2 — Division 2
- Sunlight Resistant/UV Resistant
- Direct Burial

To Create a Part Number

Add suffix "S" for Overall Foil Shielding

Sample Part Number:

21500S = 600V CSA Tray Control Cable 2-conductor, 14 AWG Bare Copper Conductor with XLPE Insulation, PVC Jacket, and Overall Foil Shield

Color Codes

No. of Conductors	Color Combination
2	Black & White
3	Black, Red & Blue
4	Black, Red, Blue & White
5 or more	Black & Number Coded

No. of Conductors	Part Numbers					
	14 AWG (7 Strand)		12 AWG (7 Strand)		10 AWG (7 Strand)	
	600V	1000V	600V	1000V	600V	1000V
2	21500	21300	21550	21350	21600	21400
3	21501	21301	21551	21351	21601	21401
4	21502	21302	21552	21352	21602	21402
5	21503	21303	21553	21353	21603	21403
6	21504	21304	21554	21354	21604	21404
7	21505	21305	21555	21355	21605	21405
8	21506	21306	21556	21356	21606	21406
9	21507	21307	21557	21357	21607	21407
10	21508	21308	21558	21358	21608	21408
11	21509	21309	21559	21359	21609	21409
12	21510	21310	21560	21360	21610	21410
13	21511	21311	21561	21361	21611	21411
14	21512	21312	21562	21362	21612	21412
15	21513	21313	21563	21363	21613	21413
16	21514	21314	21564	21364	21614	21414
17	21515	21315	21565	21365	21615	21415
18	21516	21316	21566	21366	21616	21416
19	21517	21317	21567	21367	21617	21417
20	21518	21318	21568	21368	21618	21418
21	21519	21319	21569	21369	21619	21419
22	21520	21320	21570	21370	21620	21420
23	21521	21321	21571	21371	21621	21421
24	21522	21322	21572	21372	21622	21422
25	21523	21323	21573	21373	21623	21423
26	21524	21324	21574	21374	21624	21424
27	21525	21325	21575	21375	21625	21425
28	21526	21326	21576	21376	21626	21426
29	21527	21327	21577	21377	21627	21427
30	21528	21328	21578	21378	21628	21428
31	21529	21329	21579	21379	21629	21429
32	21530	21330	21580	21380	21630	21430
33	21531	21331	21581	21381	21631	21431
34	21532	21332	21582	21382	21632	21432
35	21533	21333	21583	21383	21633	21433
36	21534	21334	21584	21384	21634	21434
37	21535	21335	21585	21385	21635	21435
38	21536	21336	21586	21386	21636	21436
39	21537	21337	21587	21387	21637	21437
40	21538	21338	21588	21388	21638	21438
41	21539	21339	21589	21389	21639	21439
42	21540	21340	21590	21390	21640	21440
43	21541	21341	21591	21391	21641	21441
44	21542	21342	21592	21392	21642	21442
45	21543	21343	21593	21393	21643	21443
46	21544	21344	21594	21394	21644	21444
47	21545	21345	21595	21395	21645	21445
48	21546	21346	21596	21396	21646	21446
49	21547	21347	21597	21397	21647	21447
50	21548	21348	21598	21398	21648	21448

No. of Cond.	Part Numbers									
	8 AWG (7 Strand)		6 AWG (7 Strand)		4 AWG (7 Strand)		3 AWG (7 Strand)		2 AWG (7 Strand)	
	600V	1000V	600V	1000V	600V	1000V	600V	1000V	600V	1000V
2	21650	21450	21653	21453	21656	21456	21659	21459	21662	21462
3	21651	21451	21654	21454	21657	21457	21660	21460	21663	21463
4	21652	21452	21655	21455	21658	21458	21661	21461	21664	21464

No. of Cond.	Part Numbers									
	1 AWG (19 Strand)		1/0 AWG (19 Strand)		2/0 AWG (19 Strand)		3/0 AWG (19 Strand)		4/0 AWG (19 Strand)	
	600V	1000V	600V	1000V	600V	1000V	600V	1000V	600V	1000V
2	21665	21465	21668	21468	21671	21471	21674	21474	21677	21477
3	21666	21466	21669	21469	21672	21472	21675	21475	21678	21478
4	21667	21467	21670	21470	21673	21473	21676	21476	21679	21479

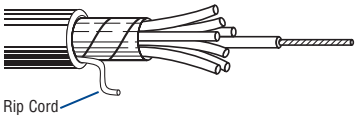
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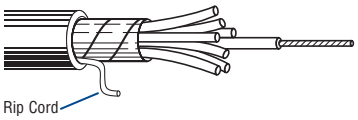
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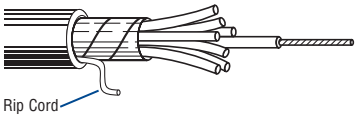
CSA Control Cable

600V CIC Multi-conductor Cables

Description	Part Number	No. of Cond.	Cable Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm
14 AWG Stranded (7x22) Bare Copper Conductors										
Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)										
CSA C22.2#131, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22100**	2	62	92	.030	.76	.045	1.14	.367	9.32
	22101	3	81	121	.030	.76	.045	1.14	.388	9.86
	22102	4	101	150	.030	.76	.045	1.14	.423	10.74
	22103	5	122	182	.030	.76	.045	1.14	.462	11.74
	22104	6	143	213	.030	.76	.045	1.14	.504	12.80
	22105	7	160	238	.030	.76	.045	1.14	.504	12.80
	22106	8	197	293	.030	.76	.060	1.52	.576	14.63
	22107	9	220	327	.030	.76	.060	1.52	.618	15.70
	22108	10	226	336	.030	.76	.060	1.52	.669	17.00
	22110	12	279	415	.030	.76	.060	1.52	.689	17.50
	22114	16	357	531	.030	.76	.060	1.52	.764	19.41
-25°C Installed -40°C to +90°C (Dry) (75°C Wet)	**22118**	20	467	695	.030	.76	.080	2.03	.886	22.50
12 AWG Stranded (7x20) Bare Copper Conductors										
Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)										
CSA C22.2#131, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22120**	2	82	122	.030	.76	.045	1.14	.405	10.29
	22121	3	109	162	.030	.76	.045	1.14	.429	10.90
	22122	4	140	208	.030	.76	.045	1.14	.469	11.91
	22123	5	170	253	.030	.76	.045	1.14	.515	13.08
	22124	6	214	319	.030	.76	.060	1.52	.591	15.01
	22125	7	240	357	.030	.76	.060	1.52	.591	15.01
	22126	8	270	402	.030	.76	.060	1.52	.639	16.23
	22127	9	302	449	.030	.76	.060	1.52	.687	17.45
	22128	10	336	500	.030	.76	.060	1.52	.745	18.92
	22130	12	390	580	.030	.76	.060	1.52	.768	19.51
	22134	16	584	869	.030	.76	.080	2.03	.893	22.68
-25°C Installed -40°C to +90°C (Dry) (75°C Wet)	**22138**	20	655	975	.030	.76	.080	2.03	.992	25.20
10 AWG Stranded (7x18) Bare Copper Conductors										
Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)										
CSA C22.2#131, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22140**	2	148	220	.030	.76	.045	1.14	.736	18.69
	22141	3	189	281	.030	.76	.045	1.14	.763	19.38
	22142	4	248	369	.030	.76	.060	1.52	.839	21.31
	22143	5	293	436	.030	.76	.060	1.52	.891	22.63
	22144	6	338	503	.030	.76	.060	1.52	.944	23.98
	22145	7	378	563	.030	.76	.060	1.52	.944	23.98
	22146	8	424	631	.030	.76	.060	1.52	.999	25.38
	22147	9	469	698	.030	.76	.060	1.52	1.074	27.28
	22148	10	548	816	.030	.76	.080	2.03	1.182	30.02
	22150	12	631	939	.030	.76	.080	2.03	1.209	30.71
	22152	14	717	1067	.030	.76	.080	2.03	1.255	31.88
-25°C Installed -40°C to +90°C (Dry) (75°C Wet)	**22154**	16	805	1198	.030	.76	.080	2.03	1.307	33.20







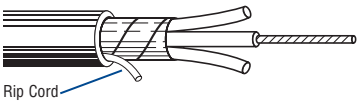
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CSA Control Cable

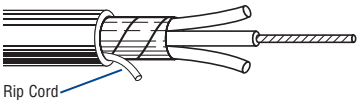
600V CIC Multi-conductor Cables

Description	Part Number	No. of Cond.	Cable Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm
8 AWG Stranded (7x16) Bare Copper Conductors										
Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)										
CSA C22.2#131, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22160**	2	240	357	.045	1.14	.060	1.52	.863	21.92
	22161	3	308	458	.045	1.14	.060	1.52	.898	22.81
	22162	4	379	564	.045	1.14	.060	1.52	.957	24.31



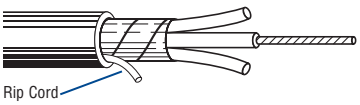
-25°C Installed
-40°C to +90°C (Dry) (75°C Wet)

6 AWG Stranded (7x14) Bare Copper Conductors										
Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)										
CSA C22.2#131, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22170**	2	279	415	.060	1.52	.060	1.52	.711	18.06
	22171	3	383	570	.060	1.52	.060	1.52	.756	19.20



-25°C Installed
-40°C to +90°C (Dry) (75°C Wet)

4 AWG Stranded (7x12) Bare Copper Conductors										
Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)										
CSA C22.2#131, Type CIC CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	**22180**	2	390	580	.060	1.52	.060	1.52	.800	20.32
	22181	3	580	863	.060	1.52	.080	2.03	.891	22.63



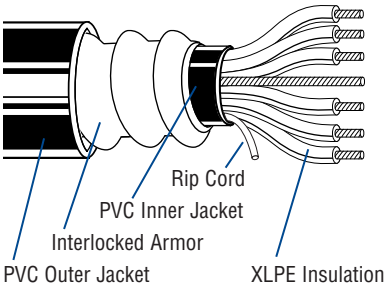
-25°C Installed
-40°C to +90°C (Dry) (75°C Wet)

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CSA Control Cable

600V ACIC and Teck90 Cables — Overview



Introduction

Belden® Teck90 and ACIC cables are designed to meet demanding industrial needs by combining rugged durability and corrosion resistance with flexibility and easy handling.

Teck90 and ACIC Cables are available in a wide range of in-stock and custom constructions to meet the needs of pulp and paper, chemical, petroleum and other demanding industrial and resource industry environments. They are ideal for use in wet or dry areas; ventilated, non-ventilated or ladder-type cable troughs; ventilated flexible cableways; and for direct burial.

Belden Teck90 Cable is marked with “FT4,” “HL” designations, and cable constructions are certified to CSA Standard C22.2#131 and C22.2#174 for use in a wide range of hazardous locations. Both inner and outer jackets meet the acid gas evolution requirement of 14% maximum required by CSA Standard C22.2#0.3 Clause 4.31.

Custom cables are available upon request.

Construction

Class B stranded bare copper conductors, cross-link polyethylene insulation, bare copper ground wire, PVC inner jacket, aluminum steel interlocking armor, PVC outer jacket.

- Galvanized steel interlocking armor available as an option.

Voltage Rating

18 to 16 AWG — 600V ACIC

14 to 8 AWG — 600 Volts

14 to 4/0 AWG — 1000 Volts

Temperature Rating

-40°C to 90°C (Dry/Wet)

-25°C installed

Application

Teck90 and ACIC are general-purpose cables used in the pulp and paper, mining, petroleum and chemical industries as well as in commercial buildings.

Teck90 and ACIC may be used under the following conditions:

- Exposed or concealed wiring in dry or wet conditions
- In ventilated, non-ventilated or ladder-type cable trays in dry or wet conditions
- On walls or beams
- Directly buried
- CEC Class I, Division I locations

Minimum Bending Radius

12 times the overall cable diameter

Pulling Tensions

The combined use of Kellems grips and pulling eyes is recommended.

Design Advantages

Insulation Properties

- High tensile strength
- Impact- and crush-resistant
- Heat-resistant
- Excellent elongation
- Moisture-resistant
- Good low temperature properties

Electrical Properties

- High insulation resistance
- Low dielectric loss
- High dielectric strength

Other Features

- Corrosion-resistant
- Versatile and flexible
- Provides cost savings as conduit and ducts are not required
- ACIC has a blue jacket
- Rip cord for inner jacket

Specifications

- CSA Standard C22.2#131
- CSA Standard C22.2#174 “Cables and Cable Glands for Use in Hazardous Locations”
- CSA Standard C22.2#0.3 Clause 4.31 “Low Acid Gas”
- CSA Standard C22.2#0.3 Clause 4.11.4 “Cables with FT4 Marking”

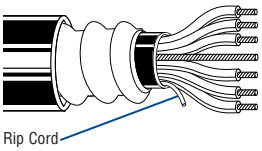
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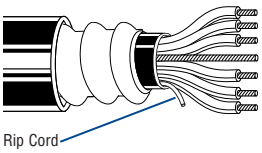
CSA Control Cable

600V ACIC Cables

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
18 AWG Stranded (7x26) Bare Copper Conductors • 18 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .030″ (.76mm) XLPE Insulation • PVC Inner Jacket • Blue PVC Outer Jacket														
CSA C22.2#239 FT4 Flame Test	**29030**	2	163	243	.32	8.13	.52	13.21	.62	15.75	44	196	7.4	187.96
	29031	3	177	263	.34	8.64	.54	13.72	.64	16.26	66	294	7.6	193.04
	29032	4	195	290	.37	9.40	.57	14.48	.67	17.02	88	392	8.0	203.20
	29033	5	219	326	.41	10.41	.61	15.49	.71	18.03	110	490	8.5	215.90
	29034	6	239	356	.45	11.43	.65	16.51	.75	19.05	132	587	9.0	228.60
	29035	7	245	365	.45	11.43	.65	16.51	.75	19.05	154	685	9.0	228.60
	29036	8	266	396	.48	12.19	.68	17.27	.78	19.81	176	783	9.3	236.22
	29038	10	331	493	.56	14.22	.76	19.30	.87	22.10	220	979	10.6	269.24
	29040	12	353	525	.62	15.75	.82	20.83	.93	23.62	264	1175	11.1	281.94
	29043	15	401	597	.65	16.51	.85	21.59	.96	24.38	330	1469	11.5	292.10
	29048	20	466	694	.73	18.54	.93	23.62	1.04	26.42	440	1958	12.4	314.96
	29053	25	589	877	.79	20.07	1.05	26.67	1.16	29.46	550	2448	13.9	353.06
	29058	30	698	1039	.88	22.35	1.14	28.96	1.25	31.75	660	2937	15.0	381.00
	29068	40	827	1231	.97	24.64	1.23	31.24	1.35	34.29	880	3916	16.2	411.48
HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas	**29078**	50	965	1436	1.09	27.69	1.35	34.29	1.47	37.34	1100	4895	17.6	447.04



Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
16 AWG Stranded (7x24) Bare Copper Conductors • 16 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .030″ (.76mm) XLPE Insulation • PVC Inner Jacket • Blue PVC Outer Jacket														
CSA C22.2#239 FT4 Flame Test	**29017**	2	202	301	.34	8.64	.54	13.72	.65	16.51	70	312	7.7	195.58
	29004	3	221	329	.36	9.14	.56	14.22	.66	16.76	105	467	7.9	200.66
	29018	4	242	360	.39	9.91	.59	14.99	.70	17.78	140	623	8.3	210.82
	29019	5	264	393	.42	10.67	.62	15.75	.73	18.54	175	779	8.6	218.44
	29005	6	292	435	.46	11.68	.66	16.76	.77	19.56	210	935	9.1	231.14
	29020	7	314	467	.47	11.94	.67	17.02	.77	19.56	245	1090	9.2	233.68
	29021	8	364	542	.50	12.70	.70	17.78	.80	20.32	280	1246	9.6	243.84
	29022	10	412	613	.61	15.49	.81	20.57	.92	23.37	350	1558	10.9	276.86
	29006	12	441	656	.63	16.00	.83	21.08	.94	23.88	420	1869	11.2	284.48
	29023	15	502	748	.68	17.27	.88	22.35	1.00	25.40	525	2336	11.9	302.26
	29007	20	636	947	.77	19.56	1.03	26.16	1.13	28.70	700	3115	13.7	347.98
	29024	25	845	1258	.89	22.61	1.15	29.21	1.26	32.00	875	3894	15.1	383.54
	29008	30	922	1372	.94	23.88	1.20	30.48	1.30	33.02	1050	4673	15.8	401.32
	29009	40	1109	1650	1.06	26.92	1.32	33.53	1.41	35.81	1400	6230	17.3	439.42
	29016	50	1306	1944	1.19	30.23	1.45	36.83	1.54	39.12	1750	7788	18.8	477.52
HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas	**29025**	60	1390	2070	1.27	32.26	1.53	38.86	1.66	42.16	2100	9345	19.9	505.46



XLPE = Cross-linked Polyethylene

Color Code: #1 conductor is white; remaining conductors are black with number coding. Other color codes available upon request.

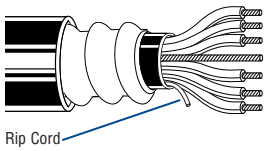
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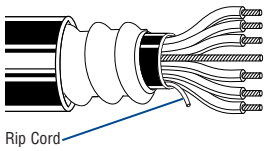
CSA Control Cable

600V Teck90 Cables

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
14 AWG Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .030″ (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5500**	2	198	296	.36	9.14	.56	14.22	.66	16.76	108	481	7.8	198.12
	C5501	3	222	331	.39	9.91	.58	14.73	.66	16.76	162	721	8.2	208.28
	C5502	4	251	375	.42	10.67	.62	15.75	.71	18.03	216	961	8.5	215.90
	C5503	5	284	424	.47	11.94	.66	16.76	.74	18.80	270	1202	9.0	228.60
	C5504	6	317	473	.51	12.95	.70	17.78	.78	19.81	324	1442	9.5	241.30
	C5505	7	331	494	.51	12.95	.70	17.78	.78	19.81	378	1682	9.5	241.30
	C5506	8	414	618	.58	14.73	.77	19.56	.86	21.84	432	1922	10.4	264.16
	C5508	10	510	761	.67	17.02	.93	23.62	.95	24.13	540	2403	12.3	312.42
	C5510	12	551	822	.69	17.53	.95	24.13	.97	24.64	648	2884	12.6	320.04
	C5513	15	636	949	.77	19.56	1.03	26.16	1.11	28.19	810	3605	14.1	358.14
	C5518	20	810	1209	.90	22.86	1.16	29.46	1.24	31.50	1080	4806	15.1	383.54
	C5523	25	948	1415	.90	22.86	1.24	31.50	1.33	33.78	1350	6008	16.1	408.94
	C5528	30	1047	1563	1.05	26.67	1.30	33.02	1.40	35.56	1620	7209	16.8	426.72
	C5529	40	1310	1955	1.20	30.48	1.42	36.07	1.51	38.35	2160	9612	18.3	464.82
HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas	**C6064**	50	1620	2418	1.35	34.29	1.60	40.64	1.66	42.16	2700	12015	20.5	520.70



12 AWG Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .030″ (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5530**	2	225	336	.41	10.41	.60	15.24	.69	17.53	172	765	8.3	210.82
	C5531	3	261	390	.43	10.92	.62	15.75	.70	17.78	258	1148	8.6	218.44
	C5532	4	301	449	.47	11.94	.66	16.76	.73	18.54	344	1531	9.1	231.14
	C5533	5	348	519	.52	13.21	.71	18.03	.78	19.81	430	1914	9.1	231.14
	C5534	6	435	649	.59	14.99	.78	19.81	.86	21.84	516	2296	10.5	266.70
	C5535	7	450	672	.59	14.99	.78	19.81	.86	21.84	602	2679	10.5	266.70
	C5536	8	506	755	.64	16.26	.83	21.08	.92	23.37	688	3062	11.1	281.94
	C5538	10	633	945	.75	19.05	1.01	25.65	1.02	25.91	860	3827	13.3	337.82
	C5540	12	696	1039	.77	19.56	1.03	26.16	1.12	28.45	1032	4592	13.5	342.90
	C5543	15	823	1228	.90	22.86	1.16	29.46	1.24	31.50	1290	5741	15.1	383.54
	C5548	20	1035	1545	.99	25.15	1.25	31.75	1.34	34.04	1720	7654	16.5	419.10
	C5553	25	1230	1836	1.10	27.94	1.36	34.54	1.45	36.83	2150	9568	17.6	447.04
HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas	**C5558**	30	1390	2075	1.20	30.48	1.46	37.08	1.51	38.35	2580	11481	17.6	447.04



XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
4 conductors — Black, Red, Blue, White
5 or more conductors — Black and numbered

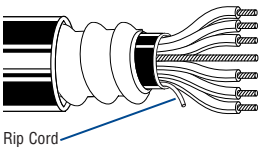
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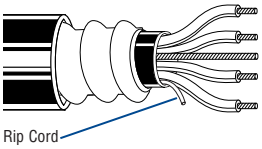
600V Teck90 Cables

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
10 AWG Stranded (7x18) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .030″ (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5560**	2	278	415	.48	12.19	.66	16.76	.72	18.29	296	1317	8.9	226.06
	C5561	3	327	488	.50	12.70	.70	17.78	.75	19.05	444	1976	9.2	233.68
	C5562	4	405	604	.57	14.48	.77	19.56	.79	20.07	592	2634	10.1	256.64
	C5563	5	487	727	.63	16.00	.83	21.08	.93	23.62	740	3293	11.5	292.10
	C5564	6	556	830	.68	17.27	.88	22.35	.93	23.62	888	3952	11.5	292.10
	C5565	7	627	936	.69	17.53	.89	22.61	.99	25.15	1036	4610	11.8	299.72
	C5566	8	739	1103	.74	18.80	.94	23.88	1.00	25.40	1184	5269	12.4	314.96
	C5568	10	964	1439	.84	21.34	1.10	27.94	1.24	31.50	1480	6586	14.4	365.76
	C5570	12	1067	1593	.93	23.62	1.19	30.23	1.26	32.00	1776	7903	15.6	396.24
	C5573	15	1297	1936	.99	25.15	1.25	31.75	1.37	34.80	2220	9879	16.3	414.02
	C5578	20	1546	2307	1.13	28.70	1.39	35.31	1.47	37.34	2960	13172	16.9	429.26
	C5579	25	1802	2690	1.26	32.00	1.52	38.61	1.60	40.64	3700	16465	19.7	500.38
HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas	**C5580**	30	2142	3197	1.34	34.04	1.60	40.64	1.66	42.16	4440	19758	20.6	523.24



8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire

Aluminum Interlocked Armor • .045″ (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5583**	2	407	607	.59	14.99	.78	19.81	.86	21.84	384	1709	10.6	269.24
	C5581	3	471	703	.63	16.00	.83	21.08	.90	22.86	576	2563	10.8	274.32
	C5582	4	606	904	.69	17.53	.89	22.61	.97	24.64	768	3418	12.5	317.50



Dual Rated 600V, 1000V
HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
4 conductors — Black, Red, Blue, White
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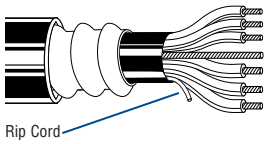
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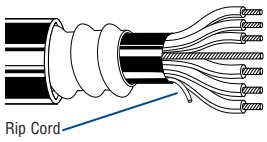
600V Teck90 Cables

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			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
Composite 14 AWG Stranded (7x22) **and 12 AWG** Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .031″ (.79mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**6054**	3c/14 3c/12	369	549	.560	14.22	.75	19.05	.89	22.61	424	1886	8.4	213.36



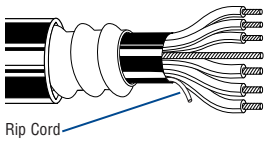
HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG Stranded (7x22) **and 10 AWG** Stranded (7x18) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .031″ (.79mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**6051**	3c/14 3c/10	432	643	.600	15.24	.82	20.83	.92	23.37	608	2705	9.0	228.60



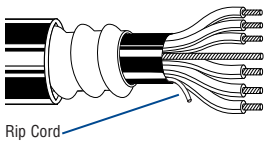
HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG Stranded (7x22) **and 8 AWG** Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .046″ (1.17mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**6059**	3c/14 3c/8	608	905	.700	17.78	.89	22.51	.98	24.92	1160	5160	9.8	248.92



HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG Stranded (7x22) **and 6 AWG** Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .061″ (1.55mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**6060**	3c/14 3c/6	849	1264	.810	20.57	1.06	27.00	1.16	29.41	1700	7562	11.6	294.64



HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
4 conductors — Black, Red, Blue, White
5 or more conductors — Black and numbered

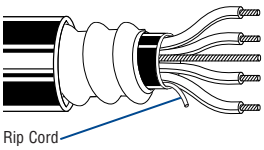
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

CSA Control Cable

1000V Teck90 Cables

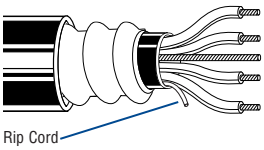
Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
14 AWG Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .045″ (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5701**	3	251	374	.47	11.94	.67	17.02	.73	18.54	162	721	9.2	233.68
	C5702	4	301	448	.51	12.95	.71	18.03	.81	20.57	216	961	9.7	246.38



HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

12 AWG Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire

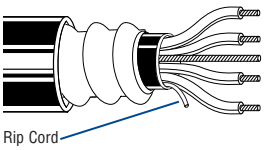
Aluminum Interlocked Armor • .045″ (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5730**	2	253	377	.48	12.19	.68	17.27	.74	18.80	172	765	9.3	236.22
	C5731	3	291	433	.51	12.95	.71	18.03	.76	19.30	258	1148	9.7	246.38
	C5732	4	368	548	.59	14.99	.75	19.05	.85	21.59	344	1531	10.8	274.32



HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

10 AWG Stranded (7x18) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire

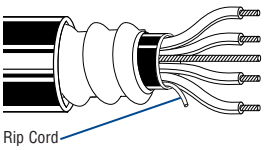
Aluminum Interlocked Armor • .045″ (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5760**	2	285	424	.56	14.22	.79	19.99	.70	17.71	296	1317	10.3	261.62
	C5761	3	389	581	.59	14.99	.79	20.07	.85	21.59	444	1976	10.3	261.62
	C5762	4	460	687	.65	16.51	.85	21.59	.90	22.86	592	2634	11.5	292.10



HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire

Aluminum Interlocked Armor • .045″ (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5583**	2	407	607	.59	14.99	.78	19.81	.86	21.84	384	1709	10.6	269.24
	C5581	3	471	703	.63	16.00	.83	21.08	.90	22.86	576	2563	10.8	274.32
	C5582	4	606	905	.69	17.53	.89	22.61	.97	24.64	768	3418	12.5	317.50



Dual Rated 600V, 1000V
HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
4 conductors — Black, Red, Blue, White
5 or more conductors — Black and numbered

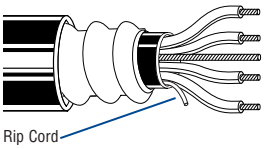
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CSA Control Cable

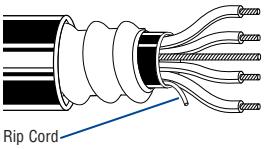
1000V Teck90 Cables

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
6 AWG Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .060″ (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5590**	2	567	844	.73	18.54	.99	25.15	1.10	27.94	610	2713	12.8	325.12
	C5591	3	685	1019	.78	19.81	1.04	26.42	1.15	29.21	915	4072	13.4	340.36
	C5592	4	927	1380	.89	22.61	1.15	29.21	1.24	31.50	1220	5429	14.9	378.46



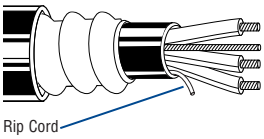
HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

4 AWG Stranded (7x12) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .060″ (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5601**	3	961	1430	.91	23.11	1.17	29.72	1.23	31.24	1455	6475	15.2	386.08
	C5602	4	1202	1794	.91	23.11	1.25	31.75	1.33	33.78	1940	8633	16.2	411.48



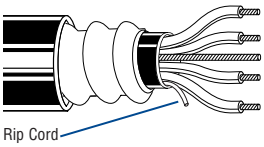
HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

3 AWG Stranded (7x11) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .060″ (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5611**	3	1126	1681	.97	24.64	1.23	31.24	1.30	33.02	1836	8170	15.8	401.32



HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

2 AWG Stranded (7x10) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .060″ (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5621**	3	1291	1927	1.02	25.91	1.28	32.51	1.37	34.80	2316	10302	16.5	419.10
	C5622	4	1691	2524	1.12	28.45	1.38	35.05	1.48	37.59	3088	13736	17.7	449.58



HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

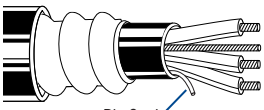
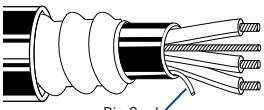
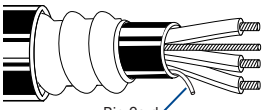
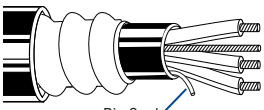
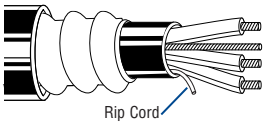
Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
4 conductors — Black, Red, Blue, White

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CSA Control Cable

1000V Teck90 Cables

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./ 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm
1 AWG Stranded (19x14) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .080″ (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5625**	3	1620	2411	1.25	31.75	1.51	38.35	1.59	40.39	1980	8807	19.1	485.14
	C5626	4	2173	3234	1.34	34.04	1.57	39.88	1.68	42.67	2680	11921	20.2	513.08
 HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas														
1/0 AWG Stranded (19x12) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .080″ (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5627**	3	1912	2854	1.34	34.04	1.60	40.64	1.67	42.42	3582	15940	20.0	508.0
	6164	4	2514	3742	1.44	36.58	1.67	42.42	1.78	45.21	4700	20906	21.4	543.56
 HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas														
2/0 AWG Stranded (19x11) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .080″ (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**C5635**	3	2300	3423	1.40	35.56	1.63	41.40	1.74	44.20	4200	12010	20.9	530.86
	6157	4	3039	4523	1.55	39.37	1.84	46.74	1.95	49.53	5500	24465	23.4	594.36
 HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas														
3/0 AWG Stranded (19x10) Bare Copper Conductors • 4 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .080″ (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**6163**	3	2905	4324	1.51	38.10	1.80	45.72	1.91	48.26	5020	11121	22.9	579.12
	6179	4	3700	5506	1.67	42.42	1.96	49.78	2.07	52.58	6500	28913	24.8	629.92
 HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas														
4/0 AWG Stranded (19x9.5) Bare Copper Conductors • 4 AWG Bare Copper Ground Wire														
Aluminum Interlocked Armor • .080″ (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test	**6193**	3	3450	5134	1.63	41.40	1.92	48.77	2.03	51.56	6650	29580	24.4	619.76
 HAZ LOC CSA C22.2#0.3 Clause 4.31 Low Acid Gas														

XLPE = Cross-linked Polyethylene

Color Code: 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
4 conductors — Black, Red, Blue, White

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CSA Control Cable

1000V Variable Frequency Drive Cable

Cable Specifications

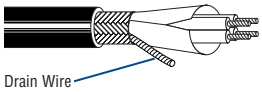
- CSA C22.2 #38 Type TC
- CSA C22.2 #230 Type TC
- CSA FT4 70,000 BTU Flame Test
- 90°C Dry and Wet
- -40°C Cold Bend, -25°C Cold Impact
- -25°C Installation temp
- Per CEC Part 1, Suitable for Use in Hazardous Locations:
  Class 1 — Zone 2
  Class 2 — Division 2
- Sunlight Resistant/UV Resistant
- Direct Burial

14 to 2 AWG with Foil/Braid Shield

Belden's classic line of VFD cables, with foil/braid shield, is offered in 14 to 2 AWG, and continues to be the highest-performing solution in the market. The oversized XLPE insulation provides the lowest capacitance available in a VFD cable. Its highly effective dual shielding provides the lowest resistance to ground path, which improves common mode current containment. Included are a full-size, insulated green ground wire with a yellow stripe, as well as a drain wire for ease of installation and termination. The 85% braid coverage offers optimum EMI low frequency noise protection, while the 100% aluminum/Mylar tape offers RFI high frequency noise protection. Cables are round and smooth for proper sealing of glands and molding applications.

Large AWG (1 to 4/0) with Copper Tape Shield, Symmetrical Design

Belden's symmetrical design combines the benefits of our classic line of VFD cables, with additional features for use on larger, more powerful AC motor drives. Its highly effective shielding provides a low resistance ground path, which improves common mode current containment. The spirally applied dual copper tapes provide improved flexibility and EMI/RFI noise protection. Three symmetrical bare ground wires provide a balanced ground system. This reduces the likelihood of premature motor bearing or motor insulation failure.

Description	Part Number	AWG	Stranding	Shield
14 to 2 AWG (3) Stranded Bare Copper Circuit Conductors + (1) Full-sized PVC Insulated Ground • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage) • Full Size TC Drain Wire (ICEA Method 4 Color Code: Black and Numbered, Green/Yellow Ground)				
XLPE Insulation • Black Sunlight- and Oil-resistant PVC Jacket				
1000V CSA TC FT4 RW90 Circuit Conductors  	**29550**	14	7	Beldfoil (100% Coverage) + TC Braid (85% Coverage)
	29551	12	7	
	29552	10	7	
	29553	8	7	
	29554	6	7	
	29555	4	7	
	29556	2	7	
1 to 4/0 AWG (3) Stranded Bare Copper Circuit Conductors + (3) Symmetrical Bare Copper Grounds • (2) Spiral Copper Tape Shields				
XLPE Insulation • Black Sunlight- and Oil-resistant PVC Jacket				
1000V CSA TC FT4 XHHW-2 Circuit Conductors 	**29557**	1	19	(2) Spiral Copper Tapes
	29558	1/0	19	
	29559	2/0	19	
	29560	3/0	19	
	29561	4/0	19	

Products listed are subject to minimum order quantities.

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Technical Information

Gland Information for Armored Cables

Thomas and Betts

Part No.	Hub Size NPT	Range Over Jacket			
		Minimum		Maximum	
		Inch	mm	Inch	mm
ST050-462	1/2	.525	13.34	.650	16.51
ST050-464	1/2	.600	15.24	.760	19.30
ST050-465	1/2	.725	18.42	.885	22.48
ST050-466	1/2	.825	20.96	.985	25.02
ST075-467	3/4	.880	22.35	1.065	27.05
ST075-468	3/4	1.025	26.04	1.205	30.61
ST100-469	1	1.187	30.15	1.375	34.93
ST125-470	1-1/4	1.350	34.29	1.625	41.28
ST125-550	1-1/4	1.500	38.10	1.625	41.28
ST125-471	1-1/4	1.600	40.64	1.875	47.63
ST150-472	1-1/2	1.700	43.18	1.965	49.91
ST150-473	1-1/2	1.900	48.26	2.187	55.55
ST200-551	2	1.900	48.26	2.187	55.55
ST200-474	2	2.100	53.34	2.375	60.33
ST200-475	2	2.300	58.42	2.565	65.15
ST200-476	2	2.500	63.50	2.750	69.85
ST250-477	2-1/2	2.380	60.45	2.640	67.06
ST250-478	2-1/2	2.580	65.53	2.840	72.14
ST300-479	3	2.790	70.87	3.060	77.72
ST300-480	3	3.000	76.20	3.270	83.06
ST300-481	3	3.210	81.53	3.480	88.39
ST350-482	3-1/2	3.420	86.67	3.690	93.73
ST350-483	3-1/2	3.610	91.69	3.870	98.30
ST400-484	4	3.810	96.77	4.030	102.36
ST400-485	4	3.965	100.71	4.185	106.30
ST400-486	4	4.120	104.65	4.340	110.24

Crouse Hinds

NPT Thread Size	Armor OD Range (Inch)	Non-Hazardous Part No.	Hazardous Part No.
1/2	.440 to .650	TMC165	TMCX165*
3/4	.600 to .850	TMC285	TMCX285*
1	.800 to 1.120	TMC3112	TMCX3112*
1-1/4	1.100 to 1.400	TMC4140	TMCX4140*
1-1/2	1.330 to 1.610	TMC5161	TMCX5161*
2	1.570 to 2.060	TMC6206	TMCX6206*
2-1/2	1.930 to 2.470	TMC7247	TMCX7247*
3	2.450 to 3.020	TMC8302	TMCX8302
3-1/2	2.950 to 3.520	TMC9352	TMCX9352
4	3.500 to 4.020	TMC10402	TMCX10402

*TMCX Catalog numbers listed are suitable for use with Type TC tray cable in hazardous locations when installed in accordance with NEC Articles 501-5(e) and 502-5. TMCX series is not suitable for use in Class III locations when used with tray cable.

Hawke

Hawke Size Ref.	Standard Seal 1348 Diameter				Alternative Seal 1498 Diameter				NPT Size
	Minimum		Maximum		Minimum		Maximum		
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	
711-A	.590	14.99	.820	20.83	.470	11.94	.610	15.49	1/2
711-B	.790	20.07	.060	26.92	.630	16.00	.840	21.34	3/4
711-C	.930	23.62	1.310	33.27	.830	21.08	1.090	27.69	1
711-C2	1.260	32.00	1.690	42.93	1.100	27.94	1.340	34.04	1-1/4
711-D	1.690	42.93	2.060	52.32	1.300	33.02	1.610	40.89	2
711-E	2.050	52.07	2.560	65.02	1.810	45.97	2.160	54.86	2-1/2
711-F	2.560	65.02	3.070	77.98	2.240	56.90	2.640	67.06	3
711-H	2.990	75.95	3.520	89.41	Special Order				3-1/2
711-J	3.500	88.90	4.110	104.39	Special Order				4

Adalet — PLM

Part No.**	Diameter Over Jacket				Conduit Size
	Minimum		Maximum		
	Inch	mm	Inch	mm	
PS/PSX 45-05	.350	8.89	.450	11.43	1/2
PS/PSX 55-05	.450	11.43	.550	13.97	1/2
PS/PSX 65-05	.550	13.97	.650	16.51	1/2
PS/PSX 75-05	.650	16.51	.750	19.05	1/2
PS/PSX 85-05	.750	19.05	.850	21.59	1/2
PS/PSX 95-05	.850	21.59	.950	24.13	1/2
PS/PSX 99-07	.850	21.59	.990	25.15	3/4
PS/PSX 107-07	.920	23.37	1.070	27.18	3/4
PS/PSX 113-07	.980	24.89	1.130	28.70	3/4
PS/PSX 121-07	1.070	27.18	1.210	30.73	3/4
PS/PSX 112-10	1.000	25.40	1.120	28.45	1
PS/PSX 125-10	1.120	28.45	1.250	31.25	1
PS/PSX 138-10	1.220	30.99	1.380	35.05	1
PS/PSX 138-12	1.280	32.51	1.380	35.05	1-1/4
PS/PSX 156-12	1.380	35.05	1.560	39.62	1-1/4
PS/PSX 174-12	1.560	39.62	1.740	44.20	1-1/4
PS/PSX 188-12	1.740	44.20	1.880	47.75	1-1/4
PS/PSX 174-15	1.600	40.64	1.740	44.20	1-1/2
PS/PSX 188-15	1.740	44.20	1.880	47.75	1-1/2
PS/PSX 200-15	1.880	47.75	2.000	50.80	1-1/2
PS/PSX 218-15	2.000	50.80	2.180	55.37	1-1/2
PS/PSX 219-20	2.050	52.07	2.190	55.63	2
PS/PSX 236-20	2.190	55.63	2.360	59.94	2
PS/PSX 247-20	2.350	59.69	2.470	62.74	2
PS/PSX 261-20	2.470	62.74	2.610	66.29	2
PS/PSX 263-25	2.460	62.48	2.630	66.80	2-1/2
PS/PSX 280-25	2.620	66.55	2.800	71.12	2-1/2
PS/PSX 296-25	2.800	71.12	2.960	75.18	2-1/2
PS/PSX 297-30	2.800	71.12	2.970	75.44	3
PS/PSX 311-30	2.950	74.93	3.110	78.99	3
PS/PSX 327-30	3.100	78.74	3.270	83.06	3
PS/PSX 343-30	3.260	82.80	3.430	87.12	3
PS/PSX 359-30	3.420	86.87	3.590	91.19	3
PS/PSX 375-35	3.520	89.41	3.750	95.25	3-1/2
PS/PSX 392-35	3.750	95.25	3.920	99.57	3-1/2
PS/PSX 412-35	3.900	99.06	4.120	104.65	3-1/2
PS/PSX 423-40	4.050	102.87	4.230	107.44	4
PS/PSX 437-40	4.200	106.68	4.370	111.00	4
PS/PSX 451-40	4.340	110.24	4.510	114.55	4
PS/PSX 462-40	4.430	112.52	4.620	117.35	4

**Use PS for non-hazardous locations and PSX for hazardous locations.

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Technical Information

LSZH Jacketed Cables and Hazardous Locations Reference

Approvals and Standards/Performance Data for Low-Smoke, Zero-Halogen Jacketed Cable

XLPE Insulation	
Physical: (per UL-44)	
Tensile (min)	1500 psi
Elongation (min)	150%
Deformation (max)	3.35
LOI	27

Haloarrest® Jacket	
Physical	
Tensile (min)	1500 psi
Elongation (min)	100%
Tear resistance	74 lbs/inch
LOI	38
Halogen Content	
IEC 754-1	0%
BS6425	0%
MIL-C-24643	<0.2%
NBS Smoke Chamber (.100″ wall)	
Flaming Mode	141 D_m corrected typical
Smoldering Mode	311 D_m corrected typical
Acid Gas	
IEC 754-2	4.3 pH, 28 µS/cm
VDE 0472 Part 813	4.3 pH, 27 µS/cm
Toxicity Index	
NES 713	1

Low-Smoke, Zero-Halogen Jacketed Cable Specifications

600V, 90°C TC-LS
NEC 340/UL 1277 & 1685

Instrumentation

- 18 to 12 AWG, BC or TC
- 90°C XLPE insulation
- UL 44 XHHW-2 — 90°C dry/wet
- Shielded or unshielded
- Haloarrest jacket

Control or Power

- 14 to 4/0 AWG, BC or TC
- 90°C XLPE insulation
- UL 44 XHHW-2 — 90°C dry/wet
- Shielded or unshielded
- Haloarrest jacket

Hazardous Locations Cable Reference

Article 500

Class I Division 1 Hazards

- Locations where flammable gases or vapors may exist under normal operating conditions, under frequent repair or maintenance operations, or where breakdown or faulty operation of process equipment might also cause simultaneous failure of electrical equipment.
- Use conduit or MI cable with approved termination fittings.

Class I Division 2 Hazards

- Locations where flammable gases, vapors or volatile liquids are handled either in a closed system, or confined within suitable enclosures, or where hazardous concentrations are normally prevented by positive mechanical ventilation. Areas adjacent to Division 1 areas belong in Division 2.
- Use PLTC, ITC, TC, MC, MV, MI with approved termination fittings.

Class II Division 1

- Locations where combustible dusts exist under normal conditions.
- Use conduit or MI with approved termination fittings.

Class II Division 2

- Locations where combustible dusts exist under abnormal conditions.
- Use conduit or PLTC, ITC, TC, MC with ventilated channel cable trays.
- Use conduit or MC, MI with approved termination fittings.

Class III Division 1

- Locations where easily ignitible fibers and flyings exist under normal conditions.
- Use conduit or MC, MI with approved termination fittings.

Class III Division 2

- Locations where easily ignitible fibers and flyings exist under abnormal conditions.
- Use conduit or MC, MI with approved termination fittings.

Article 504

Intrinsically Safe

- Equipment and wiring that are incapable of releasing sufficient electrical energy under normal or abnormal conditions to cause ignition of a specific hazardous atmospheric mixture in its most easily ignited concentration.
- Use CL3, CL2, PLTC, TC or CM cable, colored light blue, with approved sealing and separation.

Hazardous Location Cable Reference per Canadian Electrical Code CEC Section 18

All Armored cables printed “HL” per CSA C22.2 #174 are rated for all Hazardous Location Classes and Divisions (ie. Class 1, Div. 1).

All Tray Cables printed “TC” per per CSA C22.2 #230 are rated for all Hazardous Location Classes and Division 2 or lower. (ie. Class 1, Div. 2 or lower).

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Technical Information

UL Approved Insulation/Jacketing Options

UL Listed for MC and TC			
Insulation/Jacket	Max. Temp Rating		Flame Tests
	Wet	Dry	
PVC-Nylon/PVC (THHN or THWN) 14 AWG & larger	75°C	90°C	UL 1685 FT4/ IEEE 1202/383 ICEA T-29-520
PVC-Nylon/PVC (TFN or TFFN) 16 & 18 AWG	NA	90°C	UL 1685 FT4/ IEEE 1202/383 ICEA T-29-520
XLPE/PVC or CPE (XHHW–2) 14 AWG & larger	90°C	90°C	UL 1685 FT4/ IEEE 1202/383 VW-1 rated singles ICEA T-29-520
XLPE/PVC or CPE (RFH–2) 16 & 18 AWG	75°C	75°C	UL 1685 FT4/ IEEE 1202/383 VW-1 rated singles ICEA T-29-520
FRPO/PVC 18 AWG & larger	—	75°C	UL 1685
TPE/TPE	75°C	90°C	UL 1685
FRPO/PVC	75°C	90°C	UL 1685
XLPE/Haloarrest (XHHW-2) 14 AWG & larger	90°C	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520
XLPE/Haloarrest (RFH-2) 16 & 18 AWG	75°C	75°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520
FEP/PVC	90°C	90°C	UL 1685

UL Listed for PLTC	
Insulation/Jacket	Max. Temp Rating
XLPE/PVC	90°C
XLPE/CPE	90°C
PVC/PVC	105°C
PVC/CPE	105°C
PE/PVC	75°C
FPE/PVC	75°C
TPE/TPE	105°C
XLPE/Haloarrest®	90°C
FEP/FEP	200°C

Abbreviations Key

CPE	**Chlorinated Polyethylene**
FEP	**Fluorinated Ethylene-propylene**
FPE	**Foam Polyethylene**
FRPO	**Flame-Retardant Polyolefin**
PE	**Polyethylene**
PVC	**Polyvinyl Chloride** Nylon insulated singles are type THHN or THWN for conductors 14 AWG or larger. Conductor sizes 16 and 18 AWG are Type TFN or TFFN singles.
TPE	**Thermoplastic Elastomer**
XLPE	**Cross-Linked Polyethylene** Cross-Linked Polyethylene (XLPE) insulated singles are type XHHW-2 for conductors 14 AWG or larger. Conductor sizes 16 and 18 AWG are RFH-2.

Vertical Tray Flame Test Comparison

Test	UL-1685 (UL-1581)	FT4/IEEE 1202/ IEEE 383-2003	IEEE 383-1974	IEC 323-3	ICEA T-29-520
Flame Test Chamber	Vertical Tray	Vertical Tray	Vertical Tray	Vertical Tray	Vertical Tray
Burner Type	Ribbon gas burner	Ribbon gas burner	Ribbon gas burner	Ribbon gas burner	Ribbon gas burner
Theoretical Heat Input	70,000 BTU/hr	70,000 BTU/hr	70,000 BTU/hr	70,000 BTU/hr	210,000 BTU/hr
Burner Positioning	horizontal 3″ from samples 18″ from tray base	20° up from horizontal 2.95″ from cable surface 11.8" above floor	horizontal 3″ from samples 18″ above tray bottom	horizontal 2.95″ from cable surface 23.6″ above floor	horizontal 8-1/4″ from cable surface 12-1/4″ above tray base
Tray Dimensions	8′ length 12″ width 3″ side flanges	9.84′ length 11.81″ width 2.85″ side flanges	8′ length 12″ width 3″ side flanges	11.5′ length 19.7″ width none	8′ length 12″ width 3″ side flanges
Sample Spacing	1/2 cable diameter	1/2 cable diameter	1/2 cable diameter	lesser of 1/2 cable diameter and .78″	1/2 cable diameter
Duration of Flame Application	20 minutes	20 minutes	20 minutes	20 minutes	20 minutes
Mode of Failure	Cable blistering or charring has reached the top of the sample after the cable has self-extinguished.	Cable char has exceeded a length of 4.92′.	Cable blistering or charring has reached the top of the sample after the cable has self-extinguished.	Cable charring has reached a height of 98.4″ above the bottom of the burner.	Cable blistering or charring has reached the top of the sample after the cable has self-extinguished.

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BELDEN
SENDING ALL THE RIGHT SIGNALS

BRILLIANCE®



19 Broadcast Cables

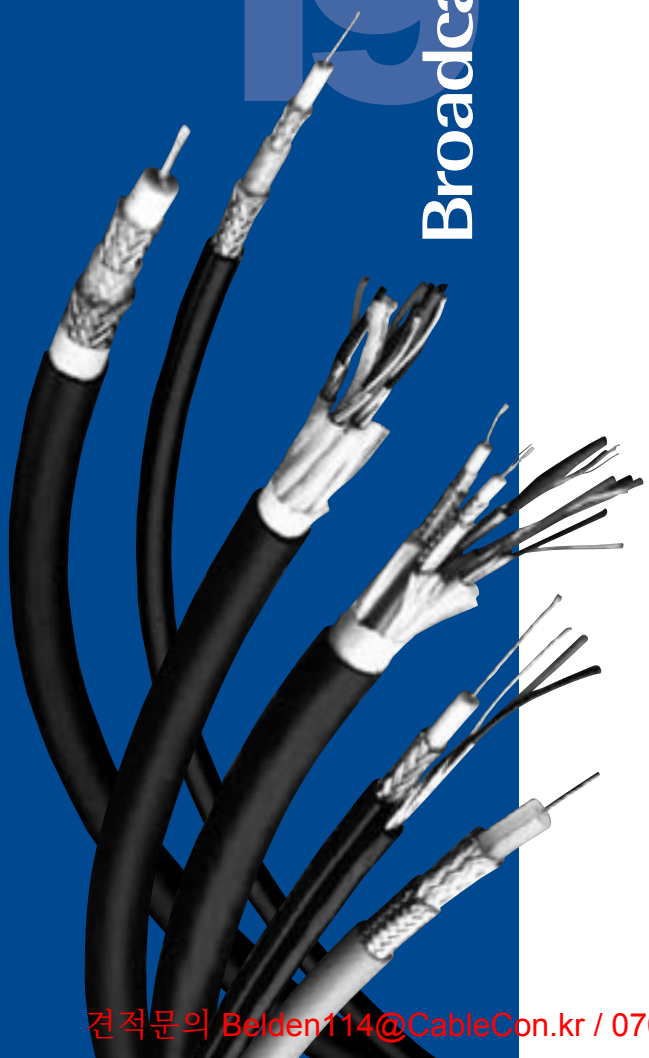


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Please refer to “Terms of Use of Master Catalog” on page 22.22

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Introduction

BRILLIANCE®

Broadcast — there is perhaps no other industry which values performance so highly, for the lack of broadcast performance has immediate, far-reaching, and embarrassing results.

That's why the broadcast industry prefers Belden® cable. From major network events such as the Olympics, space launches, and presidential news conferences to everyday audio and video applications, Belden is the local, regional, and national choice. The overwhelming reason? Performance.

In broadcast, cable performance means ensured product quality, absolute signal integrity, and no system downtime. Belden products provide performance for both critical field applications (where cable is dragged, crunched, trod, and tread upon) and permanent studio installations (where the long run is all important). Belden products are an important link in network and cable broadcasts (NBC Nightly News, Lifetime Cable Network, CNN News, and CNN Headline News), film studios (Lucasfilm) and corporate broadcasting (USA Today, Merrill Lynch).

Watch television last night or listen to the radio this morning? Chances are the link was made with Belden cable. And with dedication to development and innovation, the chance the link will be Belden increases.

Committed to Product Innovation and Technical Excellence

Belden's commitment to product innovation and technical excellence in the broadcast industry has resulted in a line of dependable audio and video cabling products called Brilliance®. Named for the sound and picture brilliance obtainable through new product innovations and improved signal integrity, Brilliance encompasses all Belden Audio/Video products. The line includes:

- High-Conductivity Microphone Cables
- Analog/Digital Audio Cables
- Speaker Cables
- Precision Analog/Digital Video Cables
- Triaxial Cables
- Audio/Video Composite Cables
- RGB & Component Video Cables
- Multimedia Cables
- Fiber Optic Cable (See Fiber Optic Section)

Most of our Brilliance cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find Brilliance cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Performance Features

Innovative Shielding

Belden shielded cable ensures signal integrity and provides confidence in audio and video transmissions, preventing down-time and maintaining sound and picture clarity. Among the shield types available are: braid shields, foil shields, combination shields and Belden's patented "French Braid" shield.

"French Braid" Shields

Belden's patented "French Braid" shield is a double spiral (double serve bare copper shield) with the two spirals tied together by one weave. This construction provides improved flex life over standard spiral shields, improved flexibility over conventional braid shields, and lower levels of microphonic or triboelectric noise than either spiral or conventional braid shields. The "French Braid" is easier to terminate than a standard braid since it is not fully woven. It also provides for a lower DC loop resistance than a single spiral braid for improved performance.



French Braid

Special Noise/Interference Problems in Broadcasting

Triboelectric noise is generated by mechanical motion of a cable, causing movement in the cable's shield. Belden detects and measures triboelectric noise through the use of Low Noise Test equipment. Belden developed the test procedure and the equipment based on a combination of three low noise standards: NBS, ISA-S, and MIL-C-17.

Mechanically induced noise is a critical and frequent concern in the use of guitar cords and microphone cables. Belden rigorously employs the properties of special conductive tapes and insulations to prevent these noise problems.

Insulations

Belden formulates its own insulations to provide superior performance under a variety of broadcast environment conditions while meeting the electrical requirements of specific applications. Belden cables are available in a number of UL Listed and CSA Approved insulation compounds. Insulation materials include polyethylene, polypropylene, PVC, fluorinated ethylene-propylene (FEP) and Belden's Datalene® — a crush-resistant, lightweight insulation that provides a low dielectric constant and dissipation factor that's well suited to high-speed, low-distortion data handling.

Jackets

Belden broadcast cables are manufactured in a wide selection of standard jacketing materials. Special compounds and variations of standard compounds are used to meet critical broadcast application requirements and unusual environmental conditions. Proper matching of cable jackets to their working environment can prevent deterioration due to intense heat and cold, sunlight, mechanical abuse, impact and crowd or vehicle traffic. Jacket materials offered include PVC (in standard and matte finishes), polyethylene, FEP, Neoprene, Hypalon®, silicone rubber and natural rubber.

For more detailed information and assistance in selecting the correct cable component features for your needs, please refer to the Technical Information section of this catalog.

Hypalon is a DuPont trademark.

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Microphone and Musical Instrument Cable
Overview

BRILLIANCE®

Flexible Microphone Cables

Belden® microphone cable is used for connecting low level microphones or musical instruments. Key properties of microphone (MIC) cable are ruggedness, flexibility, flex life and interference immunity.

MIC cable constructions utilize either 1-, 2-, 3- or 4-conductor configurations. Cable selection depends on whether the MIC or instrument is of a high- or low-impedance design. High-impedance MICs require unbalanced single conductor (coaxial) cables while low-impedance MICs utilize balanced 2-, 3-, or 4-conductor (quad) designs. Quad MIC cables are connected by attaching the two white conductors to one pin and two blue conductors to the other pin in a balanced-line XLR type connector. Besides the common-mode rejection of a standard balanced line, this gives common-mode rejection at each pin, greatly reducing noise and interference.

High-conductivity Copper

All Belden microphone cables with bare copper conductors utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a copper conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115. The high purity obtained from ETP copper results in microphone cable performance that is comparable to that of oxygen-free copper cables.

- **Plastic cables recommended for:**
  Lower capacitance, lower loss, greater ozone and oil resistance, lighter weight, smaller diameter.
- **Rubber cables recommended for:**
  Greater abrasion and impact resistance and extra limpness so the cable will lie flat on stage or on studio floors.

Four-Conductor Star Quad Low-Impedance Cables

Quad connection scheme: The two blue wires (or wires directly opposite one another) are connected together to form one conductor, and similarly the two white wires (or remaining wires) are connected together to form the second conductor.

Conductors joined in this manner lower the possibility of induced noise.

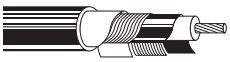
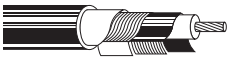
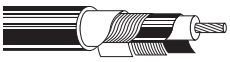
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Microphone and Musical Instrument Cable

Single-Conductor, High-Impedance Cables
High-Conductivity Copper

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
25 AWG Stranded (7x33) Composite Copper Conductor • (3) Strands TC, (4) Strands TCCS • TC Spiral Shield (90% Coverage)																		
PVC Insulation • Matte Gray PVC Jacket																		
1000 VDC, 60°C	**9396**	—	1	N/A	250	76.2	2.8	1.3	.018	.46	.017	.43	.100	2.54	—	—	75	246
																		
25 AWG Stranded (7x33) Composite Copper Conductor† • Rayon Braid + TC Braid Shield (80% Coverage) • Cotton Serve																		
EPDM Rubber Insulation • Cotton Serve • Black EPDM Rubber Jacket																		
3000 VDC, 60°C	**8410**	—	1	N/A	500	152.4	18.5	8.4	.058	1.47	.024	.61	.245	6.22	—	—	33	108
																		
20 AWG Stranded (27x34) High-conductivity TC Conductor • Conductive Textile (100%) plus TC Spiral Shields (95% Coverage) • Paper Tape																		
EPDM Rubber Insulation • Black Neoprene Jacket																		
60°C	**9394**	—	1	N/A	1000	304.8	26.0	11.8	.030	.76	.033	.84	.190	4.83	—	—	55	180
																		
20 AWG Stranded (26x34) High-conductivity TC Conductor • Conductive Textile (100%) plus TC Spiral Shields (75% Coverage) • Paper Tape																		
EPDM Rubber Insulation • Black Neoprene Jacket																		
60°C	**9778**	—	1	N/A	1000	304.8	39.0	17.7	.040	1.02	.050	1.27	.235	5.97	—	—	45	148
																		
18 AWG Stranded (41x34) High-conductivity TC Conductor • Conductive Textile (100%) plus TC Spiral Shields (68% Coverage) • Paper Tape																		
EPDM Rubber Insulation • Black Neoprene Jacket																		
600V RMS, 60°C	**9395**	—	1	N/A	1000	304.8	38.0	17.2	.045	1.14	.034	.86	.235	5.97	—	—	55	180
																		

EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper • TCCS = Tinned Copper-covered Steel

*Capacitance between conductors.
**Capacitance between center conductor and outer shield.

†(3) Strands TC, (4) Strands TCCS.

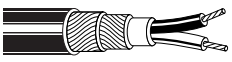
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Microphone and Musical Instrument Cable

Two-Conductor, Low-Impedance Cables
High-Conductivity Copper

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (105x44) High-conductivity Bare Copper Conductors† • Double Bare Copper Spiral Shield (97% Coverage)																		
PVC Insulation • Matte Black PVC Jacket																		
300V RMS 80°C	**9397**	—	2	White, Green	500 1000	152.4 304.8	12.0 24.0	5.5 10.9	.012	.30	.031	.79	.176	4.47	47	154	86	283
																		
24 AWG Stranded (45x40) TC Alloy Conductors† • Conductive Textile Wrap (100% Coverage) • TC Braid Shield (56% Coverage) • Cotton Spiral																		
EPDM Rubber Insulation • Black EPDM Jacket																		
300V RMS 90°C	**8413**	—	2	White, Black	100 U-500 500	30.5 U-152.4 152.4	2.3 13.0 11.5	1.0 5.9 5.2	.016	.41	.017	.43	.199	5.05	30	98	55	180
																		
24 AWG Stranded (45x40) BC Alloy Conductors† • Conductive Textile Wrap (100% Coverage) • TC Braid Shield (65% Coverage) • Cotton Spiral																		
EPDM Rubber Insulation • Brown EPDM Jacket																		
300V RMS 90°C	**9399**	—	2	Blue, Red	500	152.4	12.5	5.7	.016	.41	.020	.51	.200	5.08	30	98	55	180
																		
24 AWG Stranded (42x40) High-conductivity BC Conductors† • TC "French Braid" Shield (95% Coverage) • BC Drain Wire																		
Datalene® Insulation • Matte PVC Jacket (Available in Red, Yellow, Green, Blue, Gray or Black)																		
Digital MIC Cable High-Flex 300V RMS 60° C	**1800F** 110 Ohm AES/EBU	NEC: CL2R	2	Black, Red	500 ▲ U-1000 1000 ▲	152.4 U-304.8 304.8	12.0 26.0 24.0	5.5 11.8 10.9	.017	.43	.037	.94	.211	5.36	12	39	26	85
 French Braid																		
▲500 ft. and 1000 ft. put-ups available in Black only.																		
24 AWG Stranded (42x40) High-conductivity BC Conductors† • Double Bare Copper Spiral Shield (95% Coverage)																		
PVC Insulation • PVC Inner Jacket • Matte PVC Outer Jacket (Available in Red, Yellow, Green, Blue or Black)																		
100V RMS 60°C	**1812A**	—	2	Brown, White	328 ◆ 1000	100.0 304.8	9.8 31.0	4.5 14.1	.012	.30	.037	.94	.213	5.41	33	108	54	177
																		
◆328 ft. put-up not available in Green.																		

BC = Bare Copper • EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

†Conductors cabled with fillers.

Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

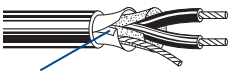
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Microphone and Musical Instrument Cable

Two-Conductor, Low-Impedance Cables
High-Conductivity Copper

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (19x36) HC TC Conductors • Twisted Pair • Noise Reducing Tape • Beldfoil® Shield (100% Coverage) • TC Drain Wire																		
High-density Polyethylene Insulation • Black PVC Jacket																		
200V RMS 75°C	**9452**	—	2	Black, Red	U-500	U-152.4	6.5	3.0	.008	.20	.020	.51	.135	3.43	30	98	58	190
					500	152.4	6.0	2.7										
					U-1000	U-304.8	12.0	5.5										
					1000	304.8	12.0	5.5										
 Shorting Fold																		
24 AWG Stranded (27x38) High-conductivity Bare Copper Conductors • Bare Copper Spiral Shield (92% Coverage)																		
PVC Insulation • Black Matte PVC Jacket																		
100V RMS 60°C	**1813A**	—	2	Red, Blue	328	100.0	10.2	4.6	.017	.43	.055	1.40	.236	5.99	33	108	61	200
					1000	304.8	31.0	14.1										
																		
22 AWG Stranded (16x34) High-conductivity Tinned Copper Conductors • Cotton Braid • Double TC Braid Shield (85% Coverage)																		
Polyethylene Insulation • Chrome PVC Jacket																		
1000V RMS 80°C	**8422**	—	2	Clear, Black	500	152.4	15.0	6.8	.021	.53	.022	.56	.231	5.87	18	59	32	105
					U-1000	U-304.8	31.0	14.1										
					1000	304.8	33.0	15.0										
																		
20 AWG Stranded (26x34) High-conductivity TC Conductors • Rayon Braid • TC Braid Shield (85% Coverage) • Cotton Wrap																		
EPDM Rubber Insulation • EPDM Jacket (Available in Black, Red, Yellow or Blue)▾																		
600V RMS 90°C	**8412**	—	2	White, Black	100	30.5	5.2	2.4	.023	.58	.035	.89	.262	6.65	30	98	55	180
					250	76.2	12.0	5.5										
					U-500	U-152.4	24.0	10.9										
					500	152.4	22.0	10.0										
					U-1000	U-304.8	46.0	20.9										
 ▾Red, Yellow or Blue available in 1000 ft. put-up only.					1000▾	304.8	47.0	21.4										
EPDM Rubber Insulation • Brown Hypalon® Jacket																		
600V RMS 60°C VW-1	**8402**	—	2	White, Black	500	152.4	25.0	11.3	.023	.58	.035	.89	.263	6.68	30	98	55	180
					U-1000	U-304.8	52.0	23.6										
																		
18 AWG Stranded (41x34) High-conductivity TC Conductors • Rayon Braid • TC Braid Shield (85% Coverage) • Cotton Wrap																		
EPDM Rubber Insulation • Black Neoprene Jacket																		
600V RMS 60°C	**8428**	—	2	White, Black	100	30.5	6.3	2.8	.023	.58	.030	.76	.290	7.37	35	115	60	197
					U-500	U-152.4	29.0	13.2										
					500	152.4	28.0	12.7										
					1000	304.8	59.0	26.8										
																		
16 AWG Stranded (65x34) High-conductivity TC Conductors • Rayon Braid • Paper Wrap • TC Braid Shield (85% Coverage) • Cotton Wrap																		
EPDM Rubber Insulation • Brown Hypalon® Heavy-duty Jacket																		
600V RMS 60°C VW-1	**8408**	—	2	Black, White	500	152.4	50.0	22.7	.037	.94	.040	1.02	.380	9.65	30	98	55	180
																		

BC = Bare Copper • EPDM = Ethylene Propylene Diene Monomer • HC = High-conductivity • TC = Tinned Copper

*Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.

Hypalon is a DuPont trademark.

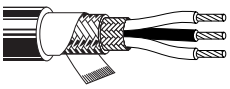
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Microphone and Musical Instrument Cable

Three-Conductor, Low-Impedance Cables
High-Conductivity Copper

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (105x44) High-conductivity Bare Copper Conductors • Double Bare Copper Spiral Shield (97% Coverage)																		
PVC Insulation • Matte Black PVC Jacket																		
300V RMS 80°C	**9398**	—	3	White, Green, Brown	1000	304.8	25.0	11.4	.012	.30	.030	.76	.185	4.70	40	131	110	361
																		
24 AWG Stranded (45x40) TC Alloy Conductors • Conductive Textile Wrap (100% Coverage) • TC Braid Shield (60% Coverage)																		
EPDM Rubber Insulation • Black EPDM Rubber Jacket																		
300V 90°C	**8406**	—	3	Black, Red, White	100	30.5	3.0	1.4	.016	.41	.025	.64	.223	5.66	30	98	55	180
					500	152.4	15.0	6.8										
24 AWG Stranded (19x32) High-conductivity Tinned Copper Conductors • Rayon Braid • TC Braid Shield (89% Coverage)																		
Polyethylene Insulation • Chrome PVC Jacket																		
600V RMS 80°C VW-1	**8403**	—	3	Clear, Black, Red	500	152.4	20.5	9.3	.016	.41	.033	.84	.244	6.20	25	82	45	148
					1000	304.8	45.0	20.5										
20 AWG Stranded (26x34) High-conductivity TC Conductors • Rayon Braid • TC Braid Shield (85% Coverage) • Cotton Wrap																		
EPDM Rubber Insulation • Black EPDM Jacket																		
600V RMS 90°C	**8423**	—	3	White, Black, Red	100	30.5	6.0	2.7	.023	.58	.040	1.02	.272	6.91	30	98	55	180
					500	152.4	26.0	11.8										
					1000	304.8	56.0	25.5										

EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

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Microphone and Musical Instrument Cable

Four-Conductor Star Quad, Low-Impedance Cables†
High-Conductivity Copper

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
28 AWG Stranded (19x40) High-conductivity Silver-plated Copper Alloy Conductors • Tinned Copper Braid Shield (78% Coverage)																		
Polypropylene Insulation • Matte PVC Jacket (Available in Red, Yellow, Blue, Beige or Black)																		
Mini Star Quad 100V RMS 60°C	**1804A**	—	4	Blue/White, White/Blue	100 ▲	30.5	1.6	0.7	.006	.15	.014	.36	.115	2.92	40	131	60	197
					500 ■	152.4	4.5	2.0										
															2/c 25 AWG equivalent DCR when connected to a 3-pin XLR.			
▲100 ft. put-up available in Black only. ■May contain more than one piece. Min. length of any one piece is 50 ft. One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.																		
26 AWG Stranded (30x40) High-conductivity BC Conductors • TC "French Braid" Shield (95% Coverage) • BC Drain Wire																		
Polyethylene Insulation • Matte PVC Jacket (Available in Red, Green, Yellow, Blue, Gray or Black)																		
100V RMS 60°C	**1172A**	—	4	Blue/White, White/Blue	500 ◆	152.4	13.5	6.1	.011	.28	.030	.76	.190	4.83	39	128	57	187
					1000	304.8	25.0	11.3										
															2/c 23 AWG equivalent DCR when connected to a 3-pin XLR.			
French Braid																		
◆500 ft. put-up available in Black only. One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.																		
24 AWG Stranded (42x40) High-conductivity Bare Copper Conductors • Tinned Copper Braid Shield (95% Coverage)																		
Polyethylene Insulation • Matte PVC Jacket (Available in Red, Green, Yellow, Blue, Gray or Black)																		
100V RMS 75°C	**1192A**	—	4	Blue/White, White/Blue	100 ▼	30.5	4.1	1.8	.016	.41	.045	1.14	.245	6.22	39	128	57	187
					500 ▼	152.4	16.5	7.5										
					1000	304.8	37.0	16.8										
															2/c 21 AWG equivalent DCR when connected to a 3-pin XLR.			
▼100 ft. put-up available in Black only. 500 ft. put-up available in Blue or Black only. One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.																		
20 AWG Stranded (19x32) High-conductivity Tinned Copper Conductors • Rayon Braid • Tinned Copper Braid Shield (85% Coverage)																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2094 (300V RMS 60°C) VW-1	**8404**	—	4	Clear, Black, Red, Green	100	30.5	5.4	2.4	.016	.41	.032	.81	.252	6.40	23	75	49	161
					500	152.4	23.0	10.4										
					U-1000	U-304.8	48.0	21.8										
					1000	304.8	49.0	22.3							2/c 17 AWG equivalent DCR when connected to a 3-pin XLR.			
20 AWG Stranded (26x34) High-conductivity Tinned Copper Conductors • Rayon Braid • TC Braid Shield (85% Coverage) • Cotton Wrap																		
EPDM Rubber Insulation • Black EPDM Rubber Jacket																		
600V RMS 90°C	**8424**	—	4	Black, White, Red, Green	100	30.5	6.8	3.1	.023	.58	.036	.91	.294	7.47	47	154	59	194
					250	76.2	15.3	6.9										
					U-500	U-152.4	32.0	14.5							2/c 17 AWG equivalent DCR when connected to a 3-pin XLR.			
					500	152.4	30.5	13.8										
					1000	304.8	64.0	29.1										
16 AWG Stranded (65x34) High-conductivity Tinned Copper Conductors • Rayon Braid • TC Braid Shield (85% Coverage) • Cotton Wrap																		
EPDM Rubber Insulation • Black Neoprene Jacket																		
600V RMS 60°C VW-1	**8407**	—	4	Black, White, Red, Green	100	30.5	11.3	5.1	.031	.79	.043	1.09	.416	10.57	30	98	66	216
					250	76.2	28.3	12.8							2/c 13 AWG equivalent DCR when connected to a 3-pin XLR.			

BC = Bare Copper • EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper

*Capacitance between conductors. **Nom. capacitance between conductors in a Quad configuration.

†**Quad connection scheme:** The two blue wires (or wires directly opposite one another) are connected together to form one conductor, and similarly the two white wires (or remaining wires) are connected together to form the second conductor.

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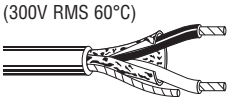
Line Level Analog Audio Cable

Single-Pair Cables

BRILLIANCE®

Belden analog audio cables are used for connecting line level audio equipment in either permanent or semi-permanent installations. They consist of one or two individually foil-shielded, twisted pairs. Once installed, they are not intended to be moved while in service. For cables that are in motion during use, refer to the Microphone and Musical Instrument Cable section in this catalog.

Belden's analog audio cable offering consists of a selection of designs to handle a variety of audio applications. Belden part no. 8451 utilizes a paper tape separator to facilitate easy long length jacket stripping. Part no. 9451 comes with a bonded Beldfoil® shield so that the shield and jacket strip simultaneously. A special matte PVC jacket material is employed on part no. 1508A making it a highly flexible construction. Double pair cables are available in a round construction (part no. 8723) or in a ZIP cord style (part no. 1504A) for easy separation in two-channel or stereo hook-ups.

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • PVC Jacket (Available in Brown, Red, Green, Lt. Blue, Purple, Gray, White or Black)																		
300V RMS 60°C	**1883A**	NEC: CMR	1	Black, Red	U-1000 1000 ▲	U-304.8 304.8	11.0 11.0	5.0 5.0	.008	.20	.020	.51	.123	3.12	31	102	58	190
 Z-Fold®		CEC: CMG FT4																
											For cross-connect use with 1408R (et al.) Snake Cables, see page 19.18.								
▲1000 ft. put-up available in Gray only. Jacket and shield are bonded so both can be removed with automatic stripping equipment.																		
Polyolefin Insulation • Black Matte PVC Jacket																		
High-Flex 300V RMS 60°C	**1508A**	NEC: CM	1	Black, Red	500 1000	152.4 304.8	6.5 11.0	2.9 5.0	.008	.20	.024	.61	.131	3.33	31	102	58	190
		CEC: CM									For cross-connect use with 1408R (et al.) Snake Cables, see page 19.18.							
Jacket and shield are bonded so both can be removed with automatic stripping equipment.																		
24 AWG Stranded (7x32) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage)†† • 24 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
Low-Capacitance UL AWM Style 2092 (300V RMS 60°C)	**8641**	NEC: CM	1	Black, Clear	100 U-500 500 U-1000 1000 2000	30.5 U-152.4 152.4 U-304.8 304.8 609.6	2.3 7.5 7.0 14.0 14.0 28.0	1.0 3.4 3.2 6.4 6.4 12.7	.016	.41	.025	.64	.168	4.27	22	72	42	138
		CEC: CM									For Plenum versions of 8641, see 88641 or 82641.							
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 200°C, Non-conduit	**88641**	NEC: CMP	1	Black, Red	100 500 † 1000 †	30.5 152.4 304.8	2.4 6.0 9.0	1.1 2.7 4.1	.006	.15	.014	.36	.106	2.69	31	102	59	194
		CEC: CMP FT6																
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 60°C, Non-conduit	**82641**	NEC: CMP	1	Black, Red	U-1000 †† 1000 ††	U-304.8 304.8	9.0 8.0	4.1 3.6	.006	.15	.014	.36	.106	2.69	31	102	59	194
		CEC: CMP FT6																

FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.
††Length may vary ±10% for UnReel.

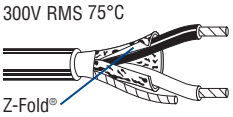
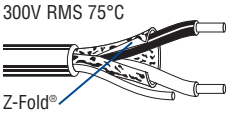
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Line Level Analog Audio Cable

Single-Pair Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil® Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)																		
300V RMS 60°C	**1266A**	NEC: CM CEC: CM	1	Black, Red	U-1000 1000 ▲	U-304.8 304.8	15.0 15.0	6.8 6.8	.010	.25	.020	.51	.143	3.63	30	99	54	177
																		
▲1000 ft. put-up available in Black only. Unique design features lower capacitance and greater flexibility than standard audio pair constructions.																		
PVC Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)																		
300V RMS 90°C	**1503A**	NEC: CM CEC: CM	1	Black, Red	U-1000	U-304.8	16.0	7.3	.010	.25	.020	.51	.142	3.61	53	174	97	318
																		
22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Paper Wrap • Gray or Black PVC Jacket																		
300V RMS 75°C	**8451**	NEC: CMR CEC: CMG FT4	1	Black, Red	100 ▼ U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.3 8.5 8.0 16.0 16.0	1.1 3.9 3.6 7.3 7.3	.008	.20	.020	.51	.138	3.51	34	111	67	220
 Z-Fold®																		
▼100 ft. put-up available in Black only. Unique paper separator facilitates jacket stripping.																		
Polypropylene Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)																		
300V RMS 75°C	**9451**	NEC: CMR CEC: CMG FT4	1	Black, Red	U-500 ✦ 500 ✦ T-1000 ✦ U-1000 5000	U-152.4 152.4 T-304.8 U-304.8 1524.0	8.5 8.0 18.0 15.0 75.0	3.9 3.6 8.2 6.8 34.0	.008	.20	.020	.51	.135	3.43	35	115	67	220
																		
For cross-connect use with 1814R (et al.) Snake Cables, see page 19.21																		
✦U-500 ft., 500 ft. and T-1000 ft. put-ups available in Gray only. The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket																		
LSZH and ABS Type Approved 300V RMS 105°C	**9451SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	1	Black, Red	1000	304.8	20.0	9.1	.008	.20	.032	.81	.160	4.06	35	114	67	220
																		
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
Plenum • FEP Insulation • Flamarrest® Jacket (Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)																		
300V RMS 60°C	**9451P** new	NEC: CMP CEC: CMP FT6	1	Black, Red	U-1000 5000	U-304.8 1524.0	16.0 75.0	7.3 34.0	.007	.18	.017	.43	.127	3.23	35	115	67	220
																		
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
22 AWG Solid Tinned Copper Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Solid TC Drain Wire																		
Polypropylene Insulation • Gray or Black PVC Jacket																		
300V RMS 75°C	**8450**	NEC: CM CEC: CM	1	Black, Red	U-500 ✦ U-1000 ✦ 1000	U-152.4 U-304.8 304.8	7.5 14.0 13.0	3.4 6.4 5.9	.007	.18	.018	.46	.118	3.00	40	131	76	249
 Z-Fold®																		
✦U-500 ft. and U-1000 ft. put-ups available in Black only. Belden's Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables.																		

FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

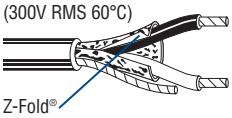
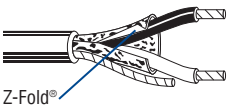
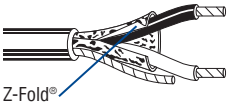
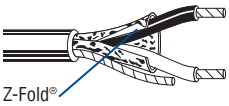
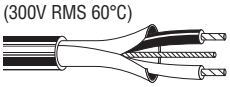
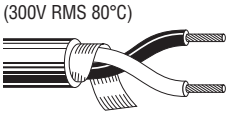
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Line Level Analog Audio Cable

Single-Pair Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil® Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
Low-Capacitance UL AWM Style 2092 (300V RMS 60°C)  Z-Fold®	**8761**	NEC: CM CEC: CM	1	Black, Clear	U-500 500 U-1000 1000 2000 5000 10000††	U-152.4 152.4 U-304.8 304.8 609.6 1524.0 3048.0	9.0 9.0 17.0 18.0 36.0 90.0 170.0	4.1 4.1 7.7 8.2 16.3 40.9 77.3	.016	.41	.025	.64	.175	4.45	24	79	47	154
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 200°C  Z-Fold®	**88761**	NEC: CMP CEC: CMP FT6	1	Black, Red	100 U-500▲ 500† U-1000▲ 1000†	30.5 U-152.4 152.4 U-304.8 304.8	2.7 7.5 7.5 15.0 12.0	1.2 3.4 3.4 6.8 5.4	.006	.15	.014	.36	.119	3.02	35	115	67	220
Plenum • FEP Insulation • Red Fluorocopolymer Jacket																		
300V RMS 150°C  Z-Fold®	**87761**	NEC: CMP CEC: CMP FT6	1	Black, Red	500† 1000†	152.4 304.8	7.0 11.0	3.2 5.0	.006	.15	.014	.36	.116	2.95	35	115	67	220
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 75°C  Z-Fold®	**82761**	NEC: CMP CEC: CMP FT6	1	Black, Red	U-500▲ U-1000■ 1000†	U-152.4 U-304.8 304.8	7.0 14.0 11.0	3.2 6.4 5.0	.006	.15	.014	.36	.116	2.95	35	115	67	220
Polyethylene Insulation • Chrome PVC Jacket																		
Low-Capacitance UL AWM Style 2092 (300V RMS 60°C) 	**9461**	NEC: CM CEC: CM	1	Black, Clear	U-500 U-1000	U-152.4 U-304.8	11.0 21.0	5.0 9.6	.016	.41	.026	.66	.180	4.57	24	79	47	154
22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2095 (300V RMS 80°C) 	**8737**	NEC: CMG CEC: CMG FT4	1	Black, Red	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	10.5 10.0 20.0 20.0	4.8 4.5 9.1 9.1	.015	.38	.025	.64	.180	4.57	40	131	70	230

For Plenum versions of 8761, see 88761, 87761 or 82761.

The jacket and shield are bonded so both can be removed on automatic stripping equipment.

FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

* Capacitance between conductors.
** Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.
†† Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 1500 ft.
▲ Length may vary ±10% for UnReel® cartons.
■ Length may vary -10% to +5% from length shown.

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Line Level Analog Audio Cable

Double-Pair Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individual Beldfoil® Shield (100% Coverage) • Stranded TC Common Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS 60°C	**8723**	NEC: CM CEC: CM	2	Red/Black, Green/White	100 U-500 500 U-1000 1000 1640 U-2000 2000 3280 5000 10000	30.5 U-152.4 152.4 U-304.8 304.8 499.9 U-609.6 609.6 999.7 1524.0 3048.0	2.3 10.5 10.0 20.0 20.0 32.8 38.0 40.0 65.6 95.0 200.0	1.0 4.8 4.5 9.1 9.1 14.9 17.2 18.2 29.8 43.2 90.9	.008	.20	—	—	.160	4.06	35	115	62	203
Z-Fold®													For Plenum versions of 8723, see 88723, 87723 or 82723.					
Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
LSZH and ABS Type Approved 300V RMS 60°C	**8723SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	2	Red & Black, Green & White	1000	304.8	26.0	11.8	—	—	—	—	.196	4.98	35	115	62	203
Z-Fold®																		
Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket																		
LSZH and ABS Type Approved 300V RMS	**8777SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	3	See Chart 3 (Tech Info Section)	1000†	304.8	39.0	17.7	.010	.25	—	—	.273	6.93	30	98	55	180
Z-Fold®																		
Plenum • FEP Insulation • Red FEP Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS 200°C	**88723**	NEC: CMP CEC: CMP FT6	2	Red/Black, Green/White	100† 500† 1000†	30.5 152.4 304.8	3.4 11.0 19.0	1.5 5.0 8.6	.006	.15	—	—	.148	3.76	35	115	67	220
Z-Fold®																		
Plenum • FEP Insulation • Red Fluorocopolymer Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS 150°C	**87723**	NEC: CMP CEC: CMP FT6	2	Red/Black, Green/White	500† 1000†	152.4 304.8	11.0 18.0	5.0 8.2	.006	.15	—	—	.148	3.76	35	115	67	220
Z-Fold®																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
300V RMS 75°C	**82723**	NEC: CMP CEC: CMP FT6	2	Red/Black, Green/White	U-500† U-1000† 1000† U-2000†	U-152.4 U-304.8 304.8 U-609.6	10.5 20.0 19.0 40.0	4.8 9.1 8.6 18.1	.006	.15	—	—	.153	3.89	43	141	75	246
Z-Fold®																		

FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

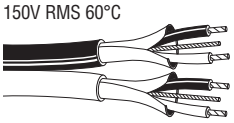
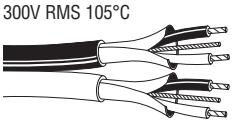
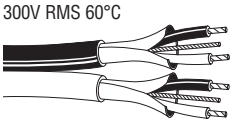
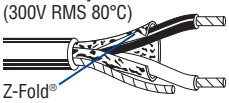
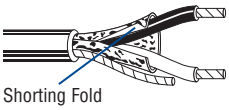
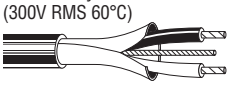
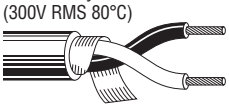
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Line Level Analog Audio Cable

Single- and Double-Pair Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (19x34) TC Conductors • Dual Twisted Pairs • Overall Beldfoil® Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
PVC Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray)																		
150V RMS 60°C 	**1504A**	NEC: CM CEC: CM	2	Black, Red	U-1000 2000 ▲	U-304.8 609.8	32.0 64.0	14.5 29.0	.010	.25	.020	.51	.143 x .286	3.63 x 7.26	57	187	100	328
▲2000 ft. put-up available in Red & Gray or Red & Green only. The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
22 AWG Stranded (7x30) TC Conductors • Dual Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
Polyolefin Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Gray, Red & Black or Red & Purple)																		
300V RMS 105°C 	**9451D**	NEC: CMR CEC: CMG FT4	2	Black, Red	U-1000 2000 ♦	U-304.8 620.8	29.0 62.0	13.2 28.1	.008	.20	.020	.51	.135 x .270	3.43 x 6.86	34	112	67	220
♦2000 ft. put-up available in Red & Green only. The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
Plenum • FEP Insulation • White Flamarrest® Jacket in Zip-Cord Construction																		
300V RMS 60°C 	**9451DP** new	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	1000	304.8	24.0	10.9	.007	.18	.017	.43	.127 x .269	3.23 x 6.83	35	115	67	220
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.																		
20 AWG Stranded (7x28) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
PVC Insulation • Beige PVC Jacket																		
UL AWM Style 2464 (300V RMS 80°C)  Z-Fold®	**9154**	NEC: CMG CEC: CMG FT4	1	Black, Red	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	11.5 12.0 22.0 23.0	5.2 5.5 10.0 10.5	.014	.36	.031	.79	.198	5.03	60	197	100	328
9154 has 22 AWG stranded tinned copper drain wire.																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2092 (300V RMS 60°C)  Shorting Fold	**8762**	NEC: CM CEC: CM	1	Black, Clear	100 250 U-500 500 U-1000 1000 2000 10000	30.5 76.2 U-152.4 152.4 U-304.8 304.8 609.6 3048.0	3.2 6.3 12.0 12.0 23.0 23.0 46.0 240.0	1.5 2.8 5.5 5.5 10.5 10.5 20.9 109.1	.016	.41	.028	.71	.204	5.18	27	89	49	161
UL AWM Style 2092 (300V RMS 60°C) 	**9464**	NEC: CM CEC: CM	1	Black, Clear	U-500 U-1000	U-152.4 U-304.8	17.0 32.0	7.7 14.5	.016	.41	.035	.89	.214	5.44	27	89	49	161
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.																		
20 AWG Stranded (7x28) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (89% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2095 (300V RMS 80°C) 	**8759**	NEC: CMG CEC: CMG FT4	1	Black, Red	U-500 U-1000 1000	U-152.4 U-304.8 304.8	12.5 24.0 25.0	5.7 10.9 11.4	.016	.41	.025	.64	.199	5.05	47	154	79	259

FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

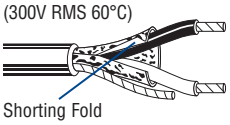
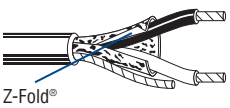
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Line Level Analog Audio Cable

Single-Pair Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
18 AWG Stranded (16x30) TC Conductors • Twisted Pair • Overall Beldfoil® Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
Low-Capacitance UL AWM Style 2092 (300V RMS 60°C) 	**9460**	NEC: CM CEC: CM	1	Black, Clear	U-500 U-1000	U-152.4 U-304.8	18.5 36.0	8.4 16.4	.019	.48	.030	.76	.230	5.84	30	98	44	144
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.																		
Low-Capacitance UL AWM Style 2092 (300V RMS 60°C)  Shorting Fold	**8760**	NEC: CM CEC: CM	1	Black, Clear	250 U-500 500 U-1000 1000 2000 5000 10000	76.2 U-152.4 152.4 U-304.8 304.8 609.6 1524.0 3048.0	6.8 13.5 13.0 25.0 26.0 50.0 135.0 260.0	3.1 6.1 5.9 11.3 11.8 22.7 61.4 118.2	.019	.48	.028	.71	.222	5.64	30	98	44	144
											For Plenum versions of 8760, see 88760, 87760 or 82760.							
18 AWG Stranded (19x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 200°C  Z-Fold®	**88760**	NEC: CMP CEC: CMP FT6	1	Black, Red	100 U-500† 500† U-1000† 1000†	30.5 U-152.4 152.4 U-304.8 304.8	3.7 12.5 11.0 24.0 22.0	1.7 5.7 5.0 10.9 10.0	.007	.18	.014	.36	.153	3.89	51	167	97	318
Plenum • FEP Insulation • Red Fluorocopolymer Jacket																		
300V RMS 150°C  Z-Fold®	**87760**	NEC: CMP CEC: CMP FT6	1	Black, Red	U-500† 500† 1000†	U-152.4 152.4 304.8	12.5 10.5 21.0	5.7 4.8 9.5	.007	.18	.014	.36	.150	3.81	51	167	97	318
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 75°C  Z-Fold®	**82760**	NEC: CMP CEC: CMP FT6	1	Black, Red	U-500† U-1000†† 1000†	U-152.4 U-304.8 304.8	12.0 22.0 21.0	5.5 10.0 9.5	.007	.18	.014	.36	.150	3.81	51	167	97	318
18 AWG Stranded (7x26) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
300V RMS 60°C 	**8790**	NEC: CMG CEC: CMG FT4	1	Red, White	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	17.5 17.0 33.0 35.0	7.9 7.7 15.0 15.9	.022	.56	.028	.71	.241	6.12	53	174	92	302

FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.
††Spools and/or UnReel® cartons are one piece, but length may vary -0% to +10%.

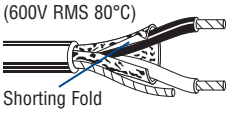
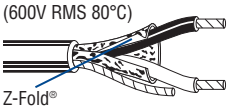
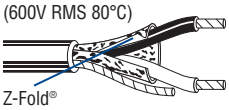
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Line Level Analog Audio Cable

Single-Pair Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
16 AWG Stranded (19x29) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)																		
PVC Insulation • Chrome PVC Jacket																		
300V RMS 60°C 	**8780**	NEC: CMG CEC: CMG FT4	1	Black, White	500 U-1000 1000	152.4 U-304.8 304.8	23.5 44.0 46.0	10.7 20.0 20.9	.023	.58	.030	.76	.280	7.11	57	187	98	322
16 AWG Stranded (19x29) TC Conductors • Twisted Pair • Overall Beldfoil® Shield (100% Coverage) • 18 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
Low-Capacitance UL AWM Style 20253 (600V RMS 80°C)  Shorting Fold	**8719**	NEC: CM, CL2 CEC: CM	1	Black, Clear	U-500 500 U-1000 1000 2000 5000 10000 †	U-152.4 152.4 U-304.8 304.8 609.6 1524.0 3048.0	24.0 25.5 47.0 50.0 100.0 245.0 510.0	10.9 11.6 21.3 22.7 45.5 111.4 231.3	.032	.81	.032	.81	.313	7.95	23	75	44	144
14 AWG Stranded (19x27) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 16 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
Low-Capacitance UL AWM Style 20253 (600V RMS 80°C)  Z-Fold®	**8720**	NEC: CL2	1	Black, Clear	U-500 500 1000 2000	U-152.4 152.4 304.8 609.6	34.0 35.0 71.0 138.0	15.4 15.9 32.3 62.7	.032	.81	.035	.89	.355	9.02	24	79	47	154
12 AWG Stranded (19x25) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 14 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
Low-Capacitance UL AWM Style 20253 (600V RMS 80°C)  Z-Fold®	**8718**	NEC CL2	1	Black, Clear	U-500 500 1000 2000	U-152.4 152.4 304.8 609.6	47.5 50.5 100.0 198.0	21.6 22.9 45.5 90.0	.037	.94	.040	1.02	.400	10.16	25	82	49	161

TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.

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Analog Multi-Pair Snake Cable

High-Flex and NEC Rated Cables

BRILLIANCE®

Especially designed for the broadcast industry, Belden's full family of multi-pair audio "Snake" cables feature options and construction for virtually every application.

Applications

Snake cables are used to connect multiple audio channels in low-level (microphone) and high-level (line) componentry such as console board equipment for recording studios, radio television stations, post-production facilities, and sound system installations. With Belden's individually shielded and jacketed snakes, pairs can be split out of the overall jacket for any length and connectorized directly without the need for heat shrink tubing or costly and time-consuming preparation. 22 AWG and 24 AWG sizes are also ideal for punch down connector applications.

Numbered and Color Coded

Jacketed pairs are individually numbered and color coded (following the familiar resistor color code) for easy identification.

Low-Capacitance Design

Belden's 1200 Series Snake Cables feature a low-capacitance design in a flexible, high-performance construction.

New "French Braid" Shield

Belden's patented "French Braid" shield is a double spiral (double serve) bare copper shield with the two spirals tied together by one weave. This improves flex life over standard spiral shields, improves flexibility over conventional braid shields, and lowers microphonic or triboelectric noise.

The "French Braid" is easy to terminate since it is not fully woven. It also provides for lower DC loop resistance than a single spiral braid. The "French Braid" is featured on Belden's FleXnake® Cables (1900 Series) and Quad Snake Cables (7880 Series).

How to Choose a Snake Cable

Permanent Installations

For installed jobs, where you must have an NEC rating, choose your preferred pair-count from within one of the following Belden® snake cable series:

1400R Series Page 19.19
CMR Rated
24 AWG
Individually Shielded and Jacketed Pairs

1500C Series Page 19.20
Flexible, CM Rated
24 AWG
Individually Shielded and Jacketed Pairs

1800R Series Page 19.22
CMR Rated
22 AWG
Individually Shielded and Jacketed Pairs

8769–8778/9767–9769 Series Page 19.24
CM Rated
22 AWG
Individually Shielded Pairs

80000 Series Page 19.25
CMP Rated (Plenum-Rated)
22 AWG
Individually Shielded Pairs

6540PA Series Page 19.26
CMP Rated (Plenum-Rated)
22 AWG
Individually Shielded Pairs

Temporary Installations or Field Use

For non-installed jobs, where cable flexibility is more important than NEC rating, choose your preferred pair-count from these snake cables series:

1500C Series Page 19.20
Flexible, CM Rated
24 AWG
Individually Shielded and Jacketed Pairs

1200B Series Page 19.23
Flexible, Low-Capacitance
22 AWG
Individually Shielded and Jacketed Pairs

1900A Series Page 19.21
Super-Flexible
24 AWG
Individually Shielded and Jacketed Pairs with "French Braid" Shield

7880A Series Page 19.18
Super-Flexible Star Quads
26 AWG
Individually Shielded and Jacketed Quads with "French Braid" Shield

For AES/EBU Digital Multi-Snake Cables
See Pages 19.28 –19.30

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Analog Multi-Quad Snake Cable

Super-Flexible, High-Performance Cables
Individually Shielded and Jacketed Quads

BRILLIANCE®

Individually Shielded and Jacketed Quads

Not NEC Rated

Product Description

26 AWG* stranded (19x38) bare copper conductor. Polyethylene insulation. Quads individually shielded with bare copper "French Braid," each quad with 26 AWG tinned copper drain wire. Color-coded PVC inner jackets (see table below) with overall Matte Black PVC jacket and 20 AWG tinned copper drain wire.

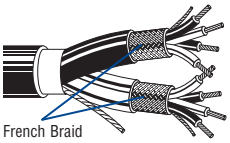
Color Code: Blue, White, Blue w/White stripe, White w/Blue stripe.

Specifications

Nominal OD — Conductor	.020″ (.51mm)
Nominal OD — Insulation	.045″ (1.14mm)
Inner Quad Jacket OD	.157″ (3.99mm)
Nominal DCR	
Conductor	36.0 Ω/M′ (11.8 Ω/km)
Shield (Inner Pair)	6.8 Ω/M′ (2.23 Ω/km)
Voltage Rating	100V RMS
Temperature Rating	60°C
Nominal Impedance	40Ω
Nominal Velocity of Propagation	66%
Nominal Capacitance	
Between Conductors and Shield	39 pF/Ft. (129 pF/m)
Between Conductors in Quad Config.	57 pF/Ft. (188 pF/m)

DCR = DC Resistance

*22 AWG equivalent DCR when connected to a 3-pin XLR



French Braid

Part No.	No. of Quads	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
Super-Flexible Quads							
26 AWG							
7884A	2	250	76.2	27.0	12.3	.458	11.63
		500 †	152.4	49.0	22.2		
		1000 †	304.8	98.0	44.4		
7885A	4	250	76.2	36.3	16.4	.498	12.65
		500 †	152.4	70.0	31.8		
		1000 †	304.8	136.0	61.7		
7886A	8	500 †	152.4	146.5	66.6	.782	19.86
		1000 †	304.8	314.0	142.4		
7887A	12	250	76.2	89.5	40.6	.828	21.03
		500 †	152.4	177.5	80.5		
		1000 †	304.8	365.0	165.6		
7888A	16	250	76.2	114.0	51.7	.938	23.83
		500 †	152.4	238.5	108.2		
		1000 †	304.8	468.0	212.3		
7889A	24	500 †	152.4	396.0	180.0	1.232	31.29
		1000 †	304.8	798.0	362.0		

†Length may vary -10% to +0% from length shown.

Inner Jacket Colors:

Quad No.	Jacket Color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple

Quad No.	Jacket Color
8	Gray
9	White
10	Black
11	Beige
12	Pink
13-24	Gray (numbered)

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Analog Multi-Pair Snake Cable

CMR Rated Cables

Individually Shielded and Jacketed Twisted Pairs

BRILLIANCE®

Individually Shielded and Jacketed Pairs

NEC: CMR (CEC: CMG FT4)

Product Description

24 AWG stranded (7x30) tinned copper conductor. Polyolefin insulation. Twisted pairs individual Beldfoil® shield (100% Coverage) and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Overall Beldfoil shield and 18 AWG tinned copper drain wire, plus overall Black PVC jacket and nylon rip cord.

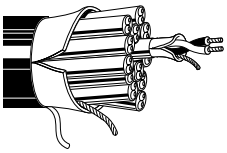
Color Code: Red, Black.

Specifications

Nominal OD — Conductor	.024″ (.61mm)
Nominal OD — Insulation	.040″ (1.02mm)
Inner Pair Jacket OD	.111″ (2.82mm)
Approvals	
NEC	CMR
CEC	CMG FT4
Nominal DCR	
Conductor	23.3Ω/M′ (76.4Ω/km)
Shield (Inner Pair)	15.9Ω/M′ (52.1Ω/km)
Voltage Rating	300V RMS
Temperature Rating	75°C
Nominal Impedance	50Ω
Nominal Velocity of Propagation	66%
Nominal Capacitance	
Between Conductors	31 pF/Ft. (102 pF/m)
Between Conductor/Shield*	58 pF/Ft. (191 pF/m)

DCR = DC Resistance

*Capacitance between one conductor and other conductors connected to shield.



Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
CMR Rated Twisted Pairs NEC: CMR (CEC: CMG FT4)							
24 AWG							
1408R	4	500 1000	152.4 304.8	36.0 73.0	16.3 33.2	.346	8.79
1409R	6	500 1000	152.4 304.8	50.5 100.0	22.9 45.4	.412	10.46
1410R	8	500 1000	152.4 304.8	62.0 122.0	28.1 55.3	.446	11.33
1411R	12	500 1000	152.4 304.8	91.0 175.0	41.3 79.4	.555	14.10
1412R	16	500 1000	152.4 304.8	117.0 232.0	53.1 105.2	.622	15.80
1413R	20	500 1000	152.4 304.8	145.0 293.0	65.8 132.9	.704	17.88
1414R	24	500 1000	152.4 304.8	182.0 374.0	82.6 169.6	.801	20.35
1415R	26	500 1000	152.4 304.8	193.5 397.0	87.8 180.1	.816	20.73
1416R	32	500 1000	152.4 304.8	228.5 465.0	103.7 210.9	.890	22.61

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Analog Multi-Pair Snake Cable

Flexible, CM Rated Cables
Individually Shielded and Jacketed Twisted Pairs

BRILLIANCE®

Individually Shielded and Jacketed Pairs

NEC: CM (CEC: CM)

Product Description

24 AWG stranded (7x32) tinned copper conductor. Polyolefin insulation. Twisted pairs individual Beldfoil® shield (100% coverage) and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Jackets and shields are bonded so both strip simultaneously. Overall Beldfoil shield and 24 AWG tinned copper drain wire, plus overall Matte Black PVC jacket and nylon rip cord.

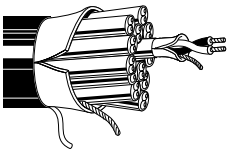
Color Code: Red, Black.

Specifications

Nominal OD — Conductor	.024″ (.61mm)
Nominal OD — Insulation	.040″ (1.02mm)
Inner Pair Jacket OD	.111″ (2.82mm)
Approvals	
NEC	CM
CEC	CM
Nominal DCR	
Conductor	23.3Ω/M′ (76.4Ω/km)
Shield (Inner Pair)	15.9Ω/M′ (52.2Ω/km)
Voltage Rating	300V RMS
Temperature Rating	75°C
Nominal Impedance	50Ω
Nominal Velocity of Propagation	66%
Nominal Capacitance	
Between Conductors	31 pF/Ft. (102 pF/m)
Between Conductor/Shield*	58 pF/Ft. (191 pF/m)

DCR = DC Resistance

*Capacitance between one conductor and other conductors connected to shield.



Flexible, CM Rated Twisted Pairs NEC: CM (CEC: CM)

Part No.	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nominal OD Inch	Nominal OD mm
24 AWG							
1509C	2	500 1000	152.4 304.8	24.0 46.0	10.9 20.9	.301	7.65
1510C	4	500 1000	152.4 304.8	35.5 72.0	16.1 32.6	.352	8.94
1511C	6	500 1000	152.4 304.8	52.0 102.0	23.6 46.3	.418	10.61
1512C	8	500 1000	152.4 304.8	65.5 124.0	29.7 56.3	.452	11.48
1513C (DT-12)	12	500 1000	152.4 304.8	89.5 178.0	40.6 80.7	.561	14.25
1514C	16	500 1000	152.4 304.8	122.5 241.0	55.6 109.3	.628	15.95
1515C	20	500 1000	152.4 304.8	142.5 288.0	64.6 130.6	.710	19.56
1516C	24	500 1000	152.4 304.8	180.5 371.0	81.9 168.3	.807	20.50
1517C	26	500 1000	152.4 304.8	187.5 385.0	85.1 174.6	.823	20.90
1518C	32	500 1000	152.4 304.8	236.5 481.0	107.3 218.2	.897	22.78
1519C	52	500 1000	152.4 304.8	372.5 731.0	169.0 331.6	1.117	28.37

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Analog Multi-Pair Snake Cable

FleXnake® Super-Flexible, High-Performance Cables
Individually Shielded and Jacketed Twisted Pairs

BRILLIANCE®

Individually Shielded and Jacketed Pairs

Not NEC Rated

Product Description

24 AWG stranded (41x40) bare copper conductor. Polyolefin insulation. Twisted pairs individually shielded with double serve "French Braid" (93% coverage) with tinned copper drain wire. Pairs have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Overall Black PVC jacket.

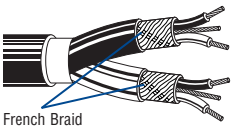
Color Code: Red, Black.

Specifications

Nominal OD — Conductor	.023″ (.58mm)
Nominal OD — Insulation	.040″ (1.02mm)
Inner Pair Jacket OD	.119″ (3.02mm)
Nominal DCR	
Conductor	25.5Ω/M′ (83.7Ω/km)
Shield (Inner Pair)	7.2Ω/M′ (23.6Ω/km)
Voltage Rating	300V RMS
Temperature Rating	60°C
Nominal Impedance	60Ω
Nominal Velocity of Propagation	66%
Nominal Capacitance	
Between Conductors	26 pF/Ft. (85 pF/m)
Between Conductor/Shield*	47 pF/Ft. (154 pF/m)

DCR = DC Resistance

*Capacitance between one conductor and other conductors connected to shield.



French Braid

Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
FleXnake Super-Flexible Twisted Pairs							
24 AWG							
1902A	2	250	76.2	12.0	5.5	.330	8.38
		500 †	152.4	27.5	12.5		
		1000 †	304.8	53.0	24.1		
1904A	4	250	76.2	19.8	9.0	.372	8.45
		500 †	152.4	40.5	18.4		
		1000 †	304.8	78.0	35.5		
1906A	6	250	76.2	28.5	12.9	.449	11.40
		500 †	152.4	55.5	25.2		
		1000 †	304.8	111.0	50.5		
1908A	8	250	76.2	36.0	16.3	.482	12.20
		500 †	152.4	72.5	32.9		
		1000 †	304.8	141.0	64.0		
1912A	12	250	76.2	51.8	23.5	.602	15.30
		500 †	152.4	102.5	46.6		
		1000 †	304.8	202.0	91.6		
1916A	16	250	76.2	71.0	32.2	.683	17.30
		500 †	152.4	138.0	62.7		
		1000 †	304.8	279.0	126.6		
1924A	24	250	76.2	108.0	49.0	.825	21.00
		500 †	152.4	214.5	97.3		
		1000 †	304.8	437.0	198.2		
1932A	32	250	76.2	135.3	61.4	.968	24.60
		500 †	152.4	274.0	124.3		
		1000 †	304.8	539.0	244.5		

†Length may vary -10% to +0% from length shown.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Analog Multi-Pair Snake Cable

CMR Rated Cables

Individually Shielded and Jacketed Twisted Pairs

BRILLIANCE®

Individually Shielded and Jacketed Pairs

NEC: CMR (CEC: CMG FT4)

Product Description

22 AWG stranded (7x30) tinned copper conductor. Polyolefin insulation. Twisted pairs individual bonded Beldfoil® shield and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Jackets and shields are bonded so both strip simultaneously. Overall Beldfoil shield plus overall Black PVC jacket and nylon rip cord.

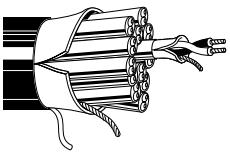
Color Code: Red, Black.

Specifications

Nominal OD — Conductor	.030″ (.76mm)
Nominal OD — Insulation	.050″ (1.27mm)
Drain Wire	
Individual Pairs	22 AWG
Overall: 1814R	22 AWG
Overall: 1815R – 1823R	18 AWG
Inner Pair Jacket OD	.133″ (3.38mm)
Approvals	
NEC	CMR
CEC	CMG FT4
Nominal DCR	
Conductor	14.8Ω/M′ (52.5Ω/km)
Shield (Inner Pair)	14.1Ω/M′ (46.3Ω/km)
Voltage Rating	300V RMS
Temperature Rating	60°C
Nominal Impedance	50Ω
Nominal Velocity of Propagation	66%
Nominal Capacitance	
Between Conductors	31 pF/Ft. (102 pF/m)
Between Conductor/Shield*	56 pF/Ft. (184 pF/m)

DCR = DC Resistance

*Capacitance between one conductor and other conductors connected to shield.



Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
CMR Rated Twisted Pairs NEC: CMR (CEC: CMG FT4)							
22 AWG							
1814R	2	500 1000	152.4 304.8	30.0 59.0	13.6 26.8	.330	8.38
1815R	4	500 1000	152.4 304.8	45.0 91.0	20.4 41.3	.384	9.74
1816R	6	500 1000	152.4 304.8	65.0 131.0	29.5 59.6	.462	11.73
1817R	8	500 1000	152.4 304.8	80.0 152.0	36.3 68.9	.503	12.78
1818R	12	500 1000	152.4 304.8	121.0 241.0	54.9 109.3	.638	16.21
1819R	16	500 1000	152.4 304.8	180.0 364.0	81.6 165.0	.776	19.71
1820R	20	500 1000	152.4 304.8	216.0 442.0	98.0 200.1	.865	21.97
1821R	24	500 1000	152.4 304.8	263.5 518.0	119.5 235.0	.969	24.61
1822R	26	500 1000	152.4 304.8	280.5 552.0	127.2 250.4	.989	25.12
1823R	32	500 1000	152.4 304.8	335.5 692.0	152.2 313.9	1.072	27.23

Length may vary -10% to +0% from length shown.

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Analog Multi-Pair Snake Cable

Flexible, Low-Capacitance Cables
Individually Shielded and Jacketed Twisted Pairs

BRILLIANCE®

Individually Shielded and Jacketed Pairs

Not NEC Rated

Product Description

22 AWG stranded (7x30) tinned copper conductor. Datalene® insulation. Twisted pairs individual Beldfoil® shield (100% Coverage) and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Overall Matte Black PVC jacket and nylon rip cord.

Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

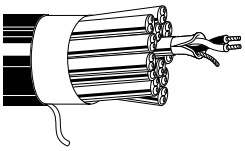
Color Code: Red, Black.

Specifications

Nominal OD — Conductor	.030″ (.76mm)
Nominal OD — Insulation	.060″ (1.52mm)
Inner Pair Jacket OD	.153″ (3.89mm)
Nominal DCR	
Conductor	15.0Ω/M′ (52.5Ω/km)
Shield (Inner Pair)	10.6Ω/M′ (34.8Ω/km)
Voltage Rating	150V RMS
Temperature Rating	60°C
Nominal Impedance	70Ω
Nominal Velocity of Propagation	78%
Nominal Capacitance	
Between Conductors	19 pF/Ft. (62 pF/m)
Between Conductor/Shield*	35 pF/Ft. (115 pF/m)

DCR = DC Resistance

*Capacitance between one conductor and other conductors connected to shield.



Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
Flexible, Low-Capacitance Twisted Pairs							
22 AWG							
1217B	4	500 1000	152.4 304.8	53.0 107.0	24.0 48.5	.458	11.63
1218B	6	500 1000	152.4 304.8	79.5 152.0	36.1 68.9	.578	14.68
1219B	9	500 1000	152.4 304.8	115.5 234.0	52.4 106.1	.700	17.78
1220B	12	500 1000	152.4 304.8	141.0 286.0	70.0 129.7	.760	19.30
1222B	16	500 1000	152.4 304.8	188.0 384.0	85.3 174.2	.852	21.64
1225B	20	500 1000	152.4 304.8	240.0 471.0	108.8 213.6	.960	24.38
1427B	24	1000	304.8	588.0	266.7	1.088	27.64
1221B	28	500 1000	152.4 304.8	335.0 676.0	152.0 306.6	1.140	28.96
1226B	32	500 1000	152.4 304.8	369.0 744.0	167.4 337.5	1.183	30.05
1428B†	52	1000	304.8	1141.0	517.5	1.496	38.00

†1428B available by special order. Please contact Belden for lead time.

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Analog Multi-Pair Snake Cable

CM Rated Cables

Individually Shielded Twisted Pairs

BRILLIANCE®

Individually Shielded Pairs

NEC: CM (CEC: CM)

Product Description

22 AWG stranded (7x30) tinned copper conductors. Polypropylene insulation. Twisted pairs individually Beldfoil® shielded (100% Coverage). Overall Chrome PVC jacket and 22 AWG stranded tinned copper drain wire.

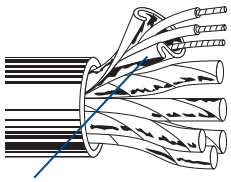
Color Code: See Chart 3 (in Technical Information Section)

Specifications

Nominal OD — Conductor	.030″ (.76mm)
Nominal OD — Insulation	.050″ (1.27mm)
Approvals	
NEC	CM
CEC	CM
UL Ratings	UL AWM Style 2919
Voltage Rating	30V RMS
Temperature Rating	80°C
Nominal DCR	
Conductor	15.0Ω/M′ (52.5Ω/km)
Shield	10.6Ω/M′ (34.8Ω/km)
Nominal Impedance	50Ω
Nominal Velocity of Propagation	66%
Nominal Capacitance	
Between Conductors	30 pF/Ft. (98 pF/m)
Between Conductor/Shield*	55 pF/Ft. (180 pF/m)

DCR = DC Resistance

*Capacitance between one conductor and other conductors connected to shield.



Z-Fold®

Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
CM Rated Twisted Pairs NEC: CM (CEC: CM)							
22 AWG							
8777	3	100	30.5	4.7	2.1	.273	6.93
		250	76.2	10.0	4.5		
		U-500	U-152.4	21.0	9.5		
		500	152.4	20.0	9.1		
		U-1000	U-304.8	41.0	18.6		
		1000	304.8	44.0	20.0		
		1640	499.9	70.5	32.0		
		3280	999.7	141.0	64.0		
		5000	1524.0	215.0	97.5		
		10000†	3048.0	460.0	208.7		
For Plenum versions of 8777, see 88777, 87777 or 82777.							
8778	6	100	30.5	8.4	3.8	.362	9.19
		250	76.2	19.0	8.6		
		500	152.4	43.0	19.5		
		1000	304.8	83.0	37.7		
For Plenum versions of 8778, see 88778, 87778 or 82778.							
8774	9	100	30.5	11.5	5.2	.417	10.59
		250	76.2	29.5	13.4		
		500	152.4	57.5	26.1		
		1000	304.8	113.0	51.3		
8775	11	100	30.5	12.1	5.5	.464	11.79
		500	152.4	65.5	29.7		
		1000	304.8	130.0	59.0		
9768	12	100	30.5	13.2	6.0	.464	11.79
		250	76.2	36.5	16.6		
		500	152.4	73.5	33.4		
		1000	304.8	143.0	65.0		
8776	15	100	30.5	17.8	8.1	.548	13.92
		250	76.2	49.5	22.5		
		500	152.4	98.0	44.5		
		1000	304.8	197.0	89.5		
9769	17	100	30.5	20.0	9.1	.577	14.66
		500	152.4	109.0	49.5		
		1000	304.8	215.0	97.7		
8769	19	100	30.5	22.9	10.4	.603	15.32
		500	152.4	123.0	55.8		
		1000	304.8	244.0	110.7		
8773	27	100	30.5	33.9	15.4	.709	18.00
		250	76.2	83.8	38.0		
		500	152.4	163.0	73.9		
		1000	304.8	341.0	154.7		
9767	37	500††	152.4	224.0	101.8	.800	20.32
		1000††	304.8	481.0	218.6		

† Final put-ups may vary -10 to +20% from length shown, and may contain 2 pieces. Minimum length of any one piece will be 1500 ft.

†† Spools are one piece, but length may vary -0 to +20% from length shown.

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Analog Multi-Pair Snake Cable

CMP Rated (Plenum) Cables
Individually Shielded Twisted Pairs

BRILLIANCE®

Individually Shielded Pairs
NEC: CMP (CEC: CMP FT6)

Product Description

22 AWG stranded (7x30) tinned copper conductors. FEP insulation. Twisted pairs individually Beldfoil® shielded (100% Coverage). Overall jacket per table below. 22 AWG stranded tinned copper drain wire.

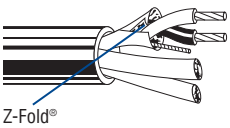
Color Code: See Chart 3 (in Technical Information Section)

Specifications

Nominal OD — Conductor	.030″ (.76mm)
Nominal OD — Insulation	.050″ (1.27mm)
Overall Jacket	
88000 Series	FEP
87000 Series	PVDF
82000 Series	Flamarrest®
Approvals	
NEC	CMP
CEC	CMP FT6
UL Ratings	Non-conduit
Voltage Rating	300V RMS
Temperature Rating	
88000 Series	200°C
87000 Series	150°C
82000 Series	60°C
Nominal DCR	
Conductor	16.0Ω/M′ (52.5Ω/km)
Shield	11.3Ω/M′ (37.1Ω/km)
Nominal Impedance	
82000 Series	46Ω
87000, 88000 Series	50Ω
Nominal Velocity of Propagation	
82000 Series	62%
87000, 88000 Series	69%
Nominal Capacitance (82000 Series)	
Between Conductors	35 pF/Ft. (115 pF/m)
Between Conductor/Shield*	76 pF/Ft. (249 pF/m)
Nominal Capacitance (87000, 88000 Series)	
Between Conductors	31 pF/Ft. (102 pF/m)
Between Conductor/Shield*	67 pF/Ft. (220 pF/m)

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

*Capacitance between one conductor and other conductors connected to shield.



Z-Fold®

Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
Plenum-Rated Twisted Pairs NEC: CMP (CEC: CMP FT6)							
22 AWG							
88777	3	100	30.5	6.0	2.7	.234	5.94
		500†	152.4	19.0	8.6		
		1000†	304.8	42.0	19.1		
88778	6	100	30.5	7.0	3.2	.309	7.85
		500†	152.4	38.5	17.5		
		1000†	304.8	75.0	34.1		
87777	3	500†	152.4	18.0	8.2	.234	5.94
		1000†	304.8	40.0	18.2		
87778	6	500†	152.4	37.5	17.0	.309	7.85
		1000†	304.8	73.0	33.2		
82777	3	U-500†	U-152.4	19.5	8.9	.237	6.02
		U-1000	U-304.8	38.0	17.3		
		1000†	304.8	39.0	17.7		
82778	6	1000†	304.8	71.0	32.2	.314	7.98

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and UnReel U-500 and -10% to +5% for UnReel U-1000 from length shown.

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Analog Multi-Pair Snake Cable

CMP Rated (Plenum) Cables
Individually Shielded Twisted Pairs

BRILLIANCE®

Individually Shielded Pairs
NEC: CMP (CEC: CMP FT6)

Product Description

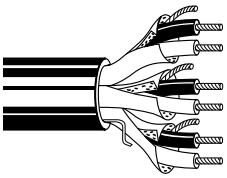
22 AWG stranded (7x30) bare copper conductor. FEP insulation. Twisted pairs individual Beldfoil® shield (100% Coverage) with drain wire. Multiple pairs cable together. Overall Gray fluorocopolymer jacket and rip cord. Sequential footage marking every two feet.

Color Code: See Chart 3 (in Technical Information Section)

Specifications

Nominal OD — Conductor	.029″ (.74mm)
Nominal OD — Insulation	.049″ (1.24mm)
Insulation Thickness	.010″ (.254mm)
Shield	Beldfoil
Outer Jacket Thickness	
2- to 12-pair	.015″ (.38mm)
16-pair (6549PA)	.018″ (.46mm)
Approvals	
NEC	CMP
CEC	CMP FT6
Voltage Rating	300V
Temperature Rating	75°C
Nominal DCR	
Conductor	16.4Ω/M′ (53.8Ω/km)
Shield	15.3Ω/M′ (50.2Ω/km)
Nominal Impedance	50Ω
Nominal Velocity of Propagation	69%
Nominal Capacitance	27.5 pF/Ft. (90.2 pF/m)

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene



Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
Plenum-Rated Twisted Pairs NEC: CMP (CEC: CMP FT6)							
22 AWG							
6541PA	2	500 U-1000 1000	152 U-305 305	13.5 26.0 27.0	6.1 11.8 12.2	.214	5.44
6542PA	3	1000	305	36.0	16.4	.228	5.79
6543PA	4	1000	305	45.0	20.4	.252	6.40
6545PA	6	1000	305	60.0	27.2	.300	7.62
6546PA	8	1000	305	85.0	38.6	.332	8.43
6548PA	12	1000	305	125.0	56.7	.408	10.36
6549PA	16	1000	305	162.0	73.5	.457	11.61

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AES/EBU Digital Audio Cable

Overview

While digital audio has been around for over 25 years, only recently has there been an effort to standardize specifications. The Audio Engineering Society (U.S.) and the European Broadcast Union have established an international standard, called AES/EBU. The detailed specifications of this standard are:

Sampling Rate: from 32 KHz to 192 KHz
Bandwidth: from 4.096 MHz to 24.5 MHz
Impedance: 110Ω ±20%

The key difference between twisted pair specifications for digital audio cable and standard analog audio cable is the impedance specification.

AES/EBU, with its broad tolerance, allows cables with impedances from 88 ohms to 132 ohms to be used. Standard analog audio cable impedance is 45 ohms to 70 ohms. This potential amount of mismatch can result in signal reflections and jitter, causing bit errors at the receiver. For this reason Belden recommends 100 to 120 ohm shielded twisted pair cable.

Product Characteristics

Belden's product offering includes 110 ohm cable solutions and an entire line of single and multi-pair snake cable designed specifically for digital audio. These cables utilize Datalene® premium grade high density insulation. This provides exceptional crush resistance as compared to standard foam polyethylenes, making the new cables less susceptible to damage resulting from cable pulling or flexing. The high velocity of propagation further reduces capacitance and signal delay providing error-free transmissions over extended distances.

Belden's "Super Flexible" digital patch cable, part no. 1800F, utilizes Belden's patented "French Braid" shield technology and a special jacket compound formulation to provide the ultimate in flexibility and performance.

Digital Audio Attenuation

Part Number	2 MHz		4 MHz		5 MHz		6 MHz		12 MHz		25 MHz	
	dB/100 Ft.	dB/100m	dB/100 Ft.	dB/100m	dB/100 Ft.	dB/100m	dB/100 Ft.	dB/100m	dB/100 Ft.	dB/100m	dB/100 Ft.	dB/100m
9180, 7880A Series	1.67	5.48	2.11	6.92	2.30	7.55	2.46	8.07	3.16	10.37	4.22	13.85
1800F	1.28	4.20	2.17	7.12	2.62	8.60	3.01	9.88	4.72	15.49	7.17	23.52
1800B, 1801B, 1802B, 1803F Series	1.30	4.27	1.56	5.12	1.70	5.58	1.81	5.94	2.28	7.48	3.08	10.10
1696A	.93	3.05	1.15	3.77	1.20	3.94	1.30	4.27	1.60	5.25	1.97	6.46
179DT (coax)	1.34	4.40	1.67	5.48	1.74	5.71	1.99	6.53	2.77	9.09	3.83	12.57
1855A (coax)	.57	1.86	.82	2.70	.92	3.02	1.00	3.29	1.30	4.27	1.80	5.91
1505A (coax)	.41	1.35	.58	1.89	.63	2.07	.69	2.25	.90	2.95	1.30	4.27
1505F (coax)	.34	1.11	.53	1.74	.60	1.97	.67	2.20	.98	3.22	1.44	4.72
1694A (coax)	.16	.52	.48	1.57	.54	1.77	.59	1.93	.80	2.62	1.00	3.28

Values reflect typical results.

Maximum Recommended Transmission Distance at Digital Audio Data Rates (AES3-2003)*

Part Number	2 MHz		4 MHz		5 MHz		6 MHz		12 MHz		25 MHz	
	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m
9180, 7880A Series	1198	365	948	289	870	265	813	248	633	193	474	144
7731A Series	8889	2709	6349	1935	5882	1793	5479	1670	3774	1150	2817	859
1800F	1563	476	922	281	763	233	664	203	424	129	279	85
1800B, 1801B, 1802B, 1803F Series	1538	469	1282	391	1176	359	1105	337	877	267	649	198
1696A	2151	655	1739	530	1667	508	1538	469	1250	381	1015	309
179DT (AES3)†◆	1493	455	1198	365	1149	350	1005	306	722	220	522	159
(AES-3id)††	597	182	479	146	460	140	402	123	289	88	209	64
1855A (AES3)†◆	3521	1073	2427	740	2174	663	1992	607	1538	469	1111	339
(AES-3id)††	1408	429	970	295	869	265	796	242	615	188	444	135
1505A (AES3)†◆	4866	1483	3478	1060	3175	968	2911	887	2222	677	1538	469
(AES-3id)††	1946	593	1391	424	1270	387	1164	355	888	270	615	188
1505F (AES3)†◆	5882	1793	3774	1150	3333	1016	2985	910	2041	622	1389	423
(AES-3id)††	2353	717	1509	460	1333	406	1194	364	816	249	556	169
1694A (AES3)†◆	5882	1793	4184	1275	3704	1129	3407	1039	2500	762	2000	610
(AES-3id)††	2353	717	1673	510	1482	452	1363	416	1000	305	800	244

*Longer transmission distances are achievable but are contingent upon system component quality of input/output voltages.
†Transmission distance calculations assume minimum allowable output signal amplitude (2V per AES3-2003) and minimum allowable input signal amplitude (200mV per AES3-2003).
††Per AES-3id-2001, when using analog video distribution equipment to implement AES-3id, maximum transmission distances are 40% of AES3 values assuming a minimum allowable output signal amplitude of 1V and a minimum allowable input signal amplitude of 320mV.
◆Implementation of AES3 with coaxial cable and 110-75Ω baluns can be achieved with transmission distances of 91% of the AES3 coaxial distances listed above.

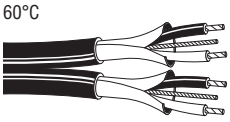
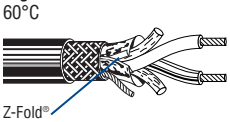
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AES/EBU Digital Audio Cable

Single- and Double-Pair Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
110 Ohm • 26 AWG Stranded (7x34) .018″ TC Conductors • Twisted Pair • Beldfoil® Shield (100% Coverage) • 26 AWG Stranded TC Drain Wire																		
Datalene® Insulation • Chrome or Purple PVC Jacket																		
2-Conductor Digital Video Time Code Cable 75°C	**9180**	NEC: CMR CEC: CMG FT4	1	Black, White	1000	304.8	10.0	4.5	37.3Ω/M′ 122.3Ω/km	23.1Ω/M′ 75.8Ω/km	.144	3.66	110	76%	13	43	26	85
 Shorting Fold																		
For cross-connect use with 7891A (et al.) Digital Audio Snake Cables, see page 19.28.																		
24 AWG Stranded (7x32) Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Drain Wire																		
Datalene Insulation • Gray or Purple PVC Jacket																		
60°C	**1800B**	NEC: CMG CEC: CMG FT4	1	Black, Red	500♦	152.4	8.0	3.6	23.7Ω/M′	18.9Ω/M′	.177	4.57	110	76%	12	39	26	85
					U-1000	U-304.8	17.0	7.7	77.7Ω/km	62.0Ω/km								
					1000	304.8	16.0	7.3										
					5000♦	1524.0	90.0	40.8										
For cross-connect use with 1803F (et al.) Digital Audio Snake Cables, see page 19.28. For Plenum version of 1800B, see 1801B.																		
♦500 ft. put-up available in Gray only. 5000 ft. put-up available in Purple only. The jacket and shield are bonded so both can be removed with automatic stripping equipment.																		
24 AWG Stranded (42x40) HC BC Conductors • Conductors Cabled with Fillers • TC "French Braid" Shield (95% Coverage) • BC Drain Wire																		
Datalene Insulation • Matte PVC Jacket (Available in Red, Yellow, Green, Blue, Gray or Black)																		
Digital Mic Cable High-Flex 60°C	**1800F**	NEC: CL2R	1	Black, Red	500▲	152.4	12.0	5.5	23.7Ω/M′	5.0Ω/M′	.211	5.36	110	76%	12	39	26	85
 French Braid					U-1000	U-304.8	26.0	11.8	77.7Ω/km	16.4Ω/km								
					1000▲	304.8	24.0	10.9										
▲500 ft. and 1000 ft. put-ups available in Black only.																		
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG TC Drain Wire																		
Plenum • Foam FEP Teflon® Insulation • Flamarrest® Jacket (Available in Natural White or Purple)																		
75°C, Non-conduit	**1801B**	NEC: CMP CEC: CMP FT6	1	Black, Red	500	152.4	6.0	2.7	23.7Ω/M′	18.9Ω/M′	.165	4.19	110	78%	12	39	26	85
					U-1000	U-304.8	14.0	6.4	77.7Ω/km	62.0Ω/km								
					1000	304.8	12.0	5.5										
24 AWG Stranded (7x32) TC Conductors • Dual Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG TC Drain Wire																		
Datalene Insulation • Purple PVC Jacket in Zip-Cord Construction																		
60°C	**1802B**	NEC: CMG CEC: CMG FT4	2	Black, Red	500	152.4	16.5	7.5	23.7Ω/M′	18.9Ω/M′	.180 x .360	4.57 x 9.14	110	76%	12	39	26	85
					U-1000	U-304.8	35.0	15.9	77.7Ω/km	62.0Ω/km								
					1000	304.8	37.0	16.8										
The jacket and shield are bonded so both can be removed with automatic stripping equipment.																		
22 AWG Stranded (7x30) TC Conductors • Twisted Pair with Fillers • Overall Beldfoil + TC Braid Shield (90% Coverage) • 24 AWG Drain Wire																		
Datalene Insulation • Black High-Flex Matte PVC Jacket																		
DMX512 Type High-Flex 60°C	**1696A**	—	1	Blue, White	250	76.2	8.0	3.6	17.8Ω/M′	4.6Ω/M′	.234	5.94	110	76%	13	43	26	85
 Z-Fold®					500	152.4	14.5	6.6	48.5Ω/km	15.2Ω/km								
					U-1000	U-304.8	30.0	13.6										
					1000	304.8	32.0	14.5										

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HC = High-conductivity • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

Teflon is a DuPont trademark.

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AES/EBU Digital Audio Cable

Multi-Pair Snake Cables
Individually Shielded and Jacketed Pairs

BRILLIANCE®

Individually Shielded and Jacketed Pairs

NEC: CMG (CEC: CMG FT4)

Product Description

26 AWG or 24 AWG stranded tinned copper conductor. Datalene® insulation. Pairs individually shielded with bonded Beldfoil® with a drain wire and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Overall Beldfoil shield/drain wire plus overall Purple PVC jacket and nylon rip cord.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

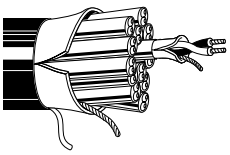
Color Code: Black, Red.

Specifications

Nominal OD — Conductor	
26 AWG	.019″ (.48mm)
24 AWG	.024″ (.60mm)
Nominal OD — Insulation	
26 AWG	.054″ (1.37mm)
24 AWG	.070″ (1.78mm)
Inner Pair Jacket OD	
26 AWG	.136″ (3.45mm)
24 AWG	.167″ (4.24mm)
Approvals	
NEC	CMG
CEC	CMG FT4
Nominal DCR (26 AWG)	
Conductor	37.3Ω/M′ (122.3Ω/km)
Shield	25.5Ω/M′ (83.6Ω/km)
Nominal DCR (24 AWG)	
Conductor	23.7Ω/M′ (77.7Ω/km)
Shield	18.9Ω/M′ (62.0Ω/km)
Nominal Impedance	110Ω ±10Ω
Nominal Velocity of Propagation	76%
Nominal Capacitance (26 AWG)	
Between Conductors	12.5 pF/Ft. (41 pF/m)
Between Conductor/Shield*	25 pF/Ft. (82 pF/m)
Nominal Capacitance (24 AWG)	
Between Conductors	12 pF/Ft. (39 pF/m)
Between Conductor/Shield*	26 pF/Ft. (86 pF/m)

DCR = DC Resistance

*Capacitance between one conductor and other conductors connected to shield.



Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
Individually Shielded & Jacketed NEC: CMG (CEC: CMG FT4)							
26 AWG (7x34)							
7891A	2	500 1000	152.4 304.8	28.0 56.0	12.7 25.5	.343	8.71
7890A	4	100 250 500 1000	30.5 76.2 152.4 304.8	8.2 18.0 31.0 61.0	3.7 8.2 14.1 27.7	.399	10.13
7880A†	8	250 500 1000	76.2 152.4 304.8	28.0 57.0 142.0	12.7 25.9 64.4	.541	13.74
Fits metal shell 25-pin D-sub connectors.							
7892A	12	500 1000	152.4 304.8	85.5 174.0	37.9 79.1	.679	17.25
7893A	16	500 1000	152.4 304.8	109.5 240.0	49.8 109.1	.770	19.56
Individually Shielded & Jacketed NEC: CMG (CEC: CMG FT4)							
24 AWG (7x32) • **Flexible**							
1803F	4	500 1000	152.4 304.8	57.5 107.0	26.1 48.6	.488	12.39
1805F	8	500 1000	152.4 304.8	106.5 211.0	48.3 95.7	.661	16.79
1806F	12	500 1000	152.4 304.8	160.0 330.0	72.6 149.7	.829	21.06
1850F	16	500 1000	152.4 304.8	208.0 407.0	94.4 184.6	.944	23.98
1852F	24	500 1000	152.4 304.8	321.0 644.0	145.6 292.1	1.205	30.61
1854F	32	1000	304.8	841.0	381.5	1.346	34.19

†7880A is designed to fit in 25-pin D-sub connectors used in digital console board equipment.

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AES/EBU Digital Audio Cable

Multi-Pair Snake Cables
Individually Shielded Pairs

BRILLIANCE®

Individually Shielded Pairs

NEC: CM (CEC: CM)

Product Description

24 AWG stranded (7x32) tinned copper conductors. Datalene® insulation. Twisted pairs individually Beldfoil® shielded (100% Coverage). Overall Chrome PVC jacket and 24 AWG stranded tinned copper drain wire.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

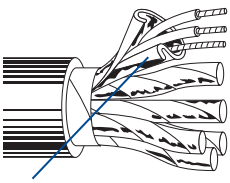
Color Code: See Chart 3 (in Technical Information Section)

Specifications

Nominal OD — Conductor	.024″ (.60mm)
Nominal OD — Insulation	.061″ (1.55mm)
Approvals	
NEC	CM
CEC	CM
UL Ratings	UL AWM Style 2493
Voltage Rating	300V
Temperature Rating	60°C
Non UL Temperature Rating	80°C
Nominal DCR	
Conductor	24.0Ω/M′ (78.7Ω/km)
Shield	15.0Ω/M′ (49.2Ω/km)
Nominal Impedance	100Ω
Nominal Velocity of Propagation	76%
Nominal Capacitance	
Between Conductors	12.5 pF/Ft. (41.0 pF/m)
Between Conductor/Shield*	23.2 pF/Ft. (76.1 pF/m)

DCR = DC Resistance

*Capacitance between one conductor and other conductors connected to shield.



Z-Fold®

Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
Individually Shielded Pairs NEC: CM (CEC: CM)							
24 AWG							
9729	2	100	30.5	4.3	2.0	.266	6.76
		500	152.4	20.5	9.3		
		1000	304.8	39.0	17.7		
		10000 †	3048.0	390.0	176.9		
For Plenum version of 9729, see 89729 or 82729.							
9730	3	100	30.5	5.1	2.3	.334	8.48
		500	152.4	24.5	11.1		
		1000	304.8	46.0	20.9		
		10000 ††	3048.0	520.0	236.4		
For Plenum version of 9730, see 89730.							
9728	4	100	30.5	6.0	2.7	.363	9.22
		500	152.4	29.0	13.2		
		1000	304.8	51.0	23.1		
For Plenum version of 9728, see 89728.							
9731	6	100	30.5	7.4	3.4	.421	10.69
		500	152.4	42.0	19.1		
		1000	304.8	83.0	37.7		
For Plenum version of 9731, see 89731.							
9732	9	100	30.5	9.9	4.5	.488	12.40
		500	152.4	57.0	25.8		
		1000	304.8	106.0	48.1		
For Plenum version of 9732, see 89732.							
9733	11	500	152.4	75.0	34.1	.575	14.61
9734	12	500	152.4	79.5	36.1	.575	14.61
		1000	304.8	154.0	70.0		
For Plenum version of 9734, see 89734.							
9735	15	500	152.4	95.0	43.2	.639	16.23
		1000	304.8	185.0	84.1		
9736	17	500	152.4	103.5	47.0	.671	17.04
		1000	304.8	210.0	95.5		
9737	19	1000	304.8	231.0	105.0	.671	17.04
9738	27	1000	304.8	334.0	151.8	.797	20.24

† Total length may vary -10 to +5% from length shown and may contain 2 pieces. Minimum length of any one piece will be 1500 ft.
†† Total length may vary -10 to +20% from length shown and may contain 2 pieces. Minimum length of any one piece will be 1500 ft.

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AES/EBU Digital Audio Cable

Plenum-Rated, Multi-Pair Snake Cables
Individually Shielded Pairs

BRILLIANCE®

Individually Shielded Pairs
NEC: CMP (CEC: CMP FT6)

Product Description

24 AWG stranded (7x32) tinned copper conductors. Foam FEP insulation. Twisted pairs individually Beldfoil® shielded (100% Coverage). Overall Gray fluorocopolymer jacket (except 82729 which has Natural Flamarrest® jacket). 24 AWG stranded tinned copper drain wire.

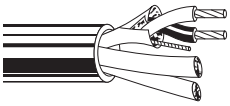
Color Code: See Chart 5 (in Technical Information Section)

Specifications

Nominal OD — Conductor	.024″ (.60mm)
Nominal OD — Insulation	.062″ (1.57mm)
Approvals	
NEC	CMP
CEC	CMP FT6
UL Ratings	Non-conduit
Voltage Rating	300V RMS
Nominal DCR	
Conductor	23.3Ω/M′ (76.4Ω/km)
Shield	14.4Ω/M′ (47.2Ω/km)
Nominal Impedance	100Ω
Nominal Velocity of Propagation	76%
Nominal Capacitance	
Between Conductors	13.5 pF/Ft. (44 pF/m)
Between Conductor/Shield*	22.5 pF/Ft. (73.8 pF/m)

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

*Capacitance between one conductor and other conductors connected to shield.



Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
Plenum Individually Shielded NEC: CMP (CEC: CMP FT6)							
24 AWG							
82729	2	U-1000 1000	U-304.8 304.8	26.0 28.0	11.8 12.7	.255	6.48
89729	2	500 1000	152.4 304.8	17.0 31.0	7.7 14.1	.261	6.63
89730	3	500 1000	152.4 304.8	21.5 40.0	9.8 18.2	.278	7.06
89728	4	500 1000	152.4 304.8	26.5 50.0	12.0 22.7	.307	7.80
89705	5	500 1000	152.4 304.8	30.5 62.0	13.9 28.2	.333	8.46
89731	6	500 1000	152.4 304.8	35.0 71.0	15.9 32.3	.361	9.17
89757	7	500 1000	152.4 304.8	39.5 80.0	18.0 36.4	.361	9.17
89732	9	1000	304.8	108.0	49.0	.433	10.99
89734	12	500 1000	152.4 304.8	71.0 140.0	32.3 63.6	.498	12.65
89758	18	500 1000	152.4 304.8	100.5 204.0	45.7 92.7	.616	15.65

Spools are one piece, but length may vary ±10% from length shown.
Unreel® carton may vary -5% to +10% from length shown.

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Speaker Wire and Cable
Overview

BRILLIANCE®

Electrolytic Tough Pitch (ETP) High-conductivity Copper Speaker Cables

Speaker cables are used to connect receivers or power amplifiers to speakers and are also used for the internal wiring of the speakers themselves.

High-conductivity Copper

All Belden® speaker cables utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch. This refining process produces a conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115. The high purity obtained from ETP copper results in audio cable performance that is comparable to that of oxygen-free copper cables.

Gage Selection

Because the impedance of the loud-speaker is quite low (typically 3 to 10 ohms) much of the power conducted through the cable is carried in the current domain which is affected by conductor resistance. The resistance of the cable between the speaker and the amplifier turns some of the amplifier's power into heat and does not get to the speaker.

The feedback from the speaker is altered by the cable. This feedback is used by the amplifier to correct the speaker's non-linearity. It is measured as the Damping factor by amplifier designers and is called "Servoing" by the Hi-Fi community.

In general, the higher the cable resistance, the lower the power level getting to the speaker, resulting in "sloppier" speaker performance due to damping.

Ultimately, the system designer must decide how to compromise system performance against system cost. In general, one of the least expensive ways to squeeze more and better performance out of the system hardware is to use larger speaker cables and cut your losses where they occur rather than try to "Band-Aid" the system later with equalization or more power.

The Cable Selection Guide can aid in determining the proper gage selection depending on the speaker impedance, acceptable power loss and cable run length.

Speaker Cable Selection Guide

AWG	4Ω Speaker			8Ω Speaker			70V Speaker*		
	Power (%) / Loss (dB/Ft.)								
	11% .5	21% 1.0	50% 3.0	11% .5	21% 1.0	50% 3.0	11% .5	21% 1.0	50% 3.0
12	140	305	1150	285	610	2285	6920	14890	56000
14	90	195	740	185	395	1480	4490	9650	36300
16	60	125	470	115	250	935	2840	6100	22950
18	40	90	340	85	190	685	2070	4450	16720
20	25	50	195	50	105	390	1170	2520	9500
22	15	35	135	35	70	275	820	1770	6650
24	10	25	85	20	45	170	520	1120	4210

The number of feet of cable you can run for a given loss and performance budget.

How to Use the Guide

Step One	Select the appropriate speaker impedance column.
Step Two	Select the appropriate power loss column deemed to be acceptable.
Step Three	Select the applicable wire gage size and follow the row over to the columns determined in steps one and two. The number listed is the maximum cable run length.
Example	The maximum run for 12 AWG in a 4 Ohm speaker system with 11% or .5 dB loss is 140 ft.

*70 volt line drive systems, while considered a potential for Hi-Fi performance, follow the same cable loss physics as the higher current (lower impedance) system. For the sake of this calculation a 25 watt 70 volts system (196Ω) was used.

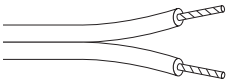
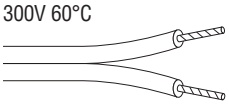
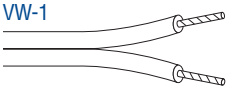
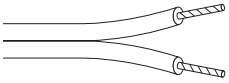
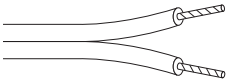
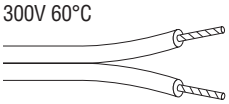
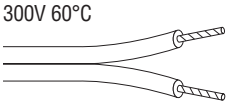
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Speaker Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables
Parallel Zip Constructions

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
24 AWG Stranded (7x32) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
PVC Insulation (Available in Clear, White, Brown or Chrome)											
300V 60°C (Clear) 300V 75°C (Chrome, Brown, White)	**8782**	—	2	U-1000 ▲ 1000 ◆	U-304.8 304.8	7.0 6.0	3.2 2.7	.017	.43	.058 x .116	1.47 x 2.95
											
▲U-1000 ft. put-up available in Brown or Chrome only. ◆1000 ft. put-up available in White or Clear only.											
22 AWG Stranded (7x30) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
Clear PVC Insulation											
300V 60°C	**9712**	—	2	1000	304.8	9.0	4.1	.017	.43	.065 x .130	1.65 x 3.30
											
20 AWG Stranded (7x28) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
Clear or Chrome PVC Insulation											
300V 60°C (Clear) 300V 75°C (Chrome) VW-1	**8649**	—	2	1000	304.8	12.0	5.5	.018	.46	.073 x .146	1.85 x 3.71
											
18 AWG Stranded (16x30) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
Clear PVC Insulation											
300V 60°C	**9708**	—	2	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	11.0 10.5 21.0 21.0	5.0 4.8 9.5 9.5	.032	.81	.110 x .220	2.79 x 5.59
											
16 AWG Stranded (26x30) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
Clear PVC Insulation											
300V 60°C	**9716**	—	2	U-1000 1000	U-304.8 304.8	27.0 26.0	12.2 11.8	.027	.69	.115 x .230	2.92 x 5.84
											
14 AWG Stranded (19x27) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
Clear PVC Insulation											
300V 60°C	**9717**	—	2	U-1000 1000	U-304.8 304.8	42.0 42.0	19.1 19.1	.035	.89	.146 x .292	3.71 x 7.42
											
12 AWG Stranded (65x30) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
Clear PVC Insulation											
300V 60°C	**9718**	—	2	500 1000	152.4 304.8	33.0 66.0	15.0 30.0	.045	1.14	.185 x .370	4.70 x 9.40
											

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Speaker Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables
Open Twisted Construction

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
22 AWG Stranded (7x30) ETP High-conductivity Copper Conductors • Cabled: (1) Tinned, (1) Bare											
PVC Insulation • (Color Code: White)											
UL Listed. Wires Misc. 90V 90°C VW-1 	**9151**	—	2	U-1000	U-304.8	7.0	3.2	.012	.30	.108	2.74
18 AWG Stranded (7x26) ETP High-conductivity Tinned Copper Conductors • Cabled											
PVC Insulation • (Color Code: Black, Natural)											
UL AWM Style 1007 (300V 80°C) VW-1 	**8460**	—	2	U-1000 1000	U-304.8 304.8	18.0 18.0	8.2 8.2	.020	.51	.180	4.57
18 AWG Stranded (19x30) ETP High-conductivity Bare Copper Conductors • Cabled											
Plenum • Flamarrest® Insulation • (Color Code: Black, Natural)											
75°C 	**1863A**	NEC: CL2P	2	1000	304.8	19.0	8.6	.022	.56	.178	4.52
16 AWG Stranded (19x29) ETP High-conductivity Tinned Copper Conductors • Cabled											
PVC Insulation • (Color Code: Black & Natural for 8470; Black & Orange for 9497)											
UL AWM Style 1007 (300V 80°C) VW-1 	**8470**	—	2	500 U-1000 1000	152.4 U-304.8 304.8	13.0 26.0 26.0	5.9 11.8 11.8	.023	.58	.210	5.33
	9497	—	2	1000	304.8	30.0	13.6	.023	.58	.210	5.33
16 AWG Stranded (19x29) ETP High-conductivity Bare Copper Conductors • Cabled											
Plenum • Flamarrest Insulation • (Color Code: Black, Natural)											
75°C 	**1862A**	NEC: CL2P	2	1000	304.8	26.0	11.8	.022	.56	.202	5.13

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Speaker Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables
Open Twisted Construction

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
14 AWG Stranded (19x27) ETP High-conductivity Bare Copper Conductors • Cabled											
Plenum • Flamarrest® Insulation • (Color Code: Black, Natural)											
150V RMS 75°C,	**1861A**	NEC: CL2P	2	1000	304.8	36.0	16.3	.022	.56	.236	5.99
											
12 AWG Stranded (19x25) ETP High-conductivity Bare Copper Conductors • Cabled											
Plenum • Flamarrest Insulation • (Color Code: Black, Natural)											
150V RMS 75°C,	**1860A**	NEC: CL2P	2	1000	304.8	58.0	26.4	.022	.56	.270	6.86
											

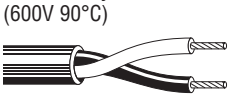
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Speaker Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables
Twisted Jacketed Construction

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
22 AWG Stranded (7x30) Tinned Copper Conductors • Conductors Cabled														
PVC Insulation • Chrome PVC Jacket														
300V RMS 60°C	**8442**	NEC: CMG CEC: CMG FT4	2	Black, Red	100 U-500 500 U-1000 1000 10000	30.5 U-152.4 152.4 U-304.8 304.8 3048.0	2.4 7.5 7.5 15.0 15.0 150.0	1.0 3.4 3.4 6.8 6.8 68.2	.015	.38	.025	.64	.170	4.32
														
											For Plenum versions of 8442, see 88442 or 82442.			
20 AWG Stranded (7x28) Tinned Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
300V RMS 80°C	**8205**	NEC: CMG CEC: CMG FT4	2	Black, Red	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.6 9.0 9.0 17.0 18.0	1.2 4.1 4.1 7.7 8.2	.013	.33	.025	.64	.180	4.57
														
18 AWG Stranded (7x26) Tinned Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
300V RMS 80°C	**8461**	NEC: CMG CEC: CMG FT4	2	Black, White	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.2 13.5 13.5 26.0 27.0	1.4 6.1 6.1 11.8 12.2	.022	.56	.028	.71	.234	5.94
														
16 AWG Stranded (19x29) Tinned Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2598 (300V 60°C) (80°C non-UL)	**8471**	NEC: CMG CEC: CMG FT4	2	Black, White	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	20.0 20.0 38.0 40.0	9.1 9.1 17.2 18.2	.023	.58	.032	.81	.274	6.96
														
14 AWG Stranded (42x30) Tinned Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2587 (600V 90°C)	**8473**	NEC: CL3 CEC: FAS 90 FT4	2	Black, White	U-500 500 1000	U-152.4 152.4 304.8	29.0 30.5 58.0	13.2 13.9 26.4	.031	.79	.032	.81	.340	8.64
														
See NEC Guidelines for applicable CL3 voltage ratings (300V RMS).														
12 AWG Stranded (65x30) Tinned Copper Conductors • Twisted Pair														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2587 (600V 90°C)	**8477**	NEC: CL3R	2	Black, White	U-500 500 1000	U-152.4 152.4 304.8	41.5 43.5 85.0	18.8 19.7 38.6	.032	.81	.035	.89	.386	9.80
														
See NEC Guidelines for applicable CL3 voltage ratings (300V RMS).														

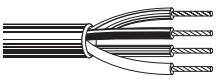
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Speaker Wire and Cable

Low-Capacitance Oxygen-Free, High-Conductivity (OFHC) Speaker Cable Twisted Jacketed Construction

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance*	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	pF/Ft.	pF/m
Low Cap • 16 AWG Stranded (65x34) Oxygen-free High-Conductivity Bare Copper Conductors • Conductors Cabled • Unshielded															
Polyolefin Insulation • PVC Jacket (Available in Black, White, Gray, Blue or Green)															
	**1307A** new	NEC: CMR, CL3R CEC: CMG FT4	2	U-500 1000†	U-152.4 304.8	15.0 29.0	6.8 13.2	.013	.32	.022	.56	.210	5.33	19.9	65.3
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
	**1308A** new	NEC: CMR, CL3R CEC: CMG FT4	4	U-500 1000†	U-152.4 304.8	26.5 54.0	12.0 24.5	.013	.32	.026	.66	.270	6.86	19.9	65.3
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
Low Cap • 14 AWG Stranded (105x34) Oxygen-free High-Conductivity Bare Copper Conductors • Conductors Cabled • Unshielded															
Polyolefin Insulation • PVC Jacket (Available in Black, White, Gray, Blue or Green)															
For Audio Use Only 	**1309A** new	NEC: CMR, CL3R CEC: CMG FT4	2	U-500 1000†	U-152.4 304.8	22.5 46.0	10.2 20.9	.016	.39	.027	.69	.264	6.71	20.5	67.3
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
For Audio Use Only 	**1310A** new	NEC: CMR, CL3R CEC: CMG FT4	4	U-500 1000†	U-152.4 304.8	41.5 84.0	18.8 38.1	.016	.39	.033	.94	.319	8.10	20.5	67.3
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
Low Cap • 12 AWG Stranded (168x34) Oxygen-free High-Conductivity Bare Copper Conductors • Conductors Cabled • Unshielded															
Polyolefin Insulation • PVC Jacket (Available in Black, White or Gray)															
For Audio Use Only 	**1311A** new	NEC: CMR, CL3R CEC: CMG FT4	2	U-500 500 1000†	U-152.4 152.4 304.8	36.5 36.5 74.0	16.6 16.6 33.6	.018	.46	.036	.91	.352	8.94	22.3	73.2
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
For Audio Use Only 	**1312A** new	NEC: CMR, CL3R CEC: CMG FT4	4	500 1000†	152.4 304.8	66.5 132.0	30.2 59.9	.018	.46	.043	1.09	.423	10.74	22.3	73.2
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
Low Cap • 10 AWG Stranded (259x34) Oxygen-free High-Conductivity Bare Copper Conductors • Conductors Cabled															
Polyolefin Insulation • PVC Jacket (Available in Black, White or Gray)															
For Audio Use Only 	**1313A** new	NEC: CMR, CL3R CEC: CMG FT4	2	500 1000†	152.4 304.8	55.0 109.0	25.0 49.5	.019	.48	.044	1.12	.428	10.87	23.2	76.1
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															

OFHC = Oxygen-Free High-Conductivity

*Capacitance between conductors.

†1000 ft. put-ups not available in Blue or Green.

Color Code Chart

Cond.	Color
1	Black
2	Red
3	White
4	Green

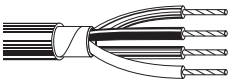
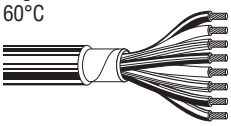
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Speaker Wire and Cable

High-Flex Multi-Conductor Cables
Bi-amp and Tri-amp Speaker Connections

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
14 AWG Stranded (104x34) Bare Copper Conductors • Conductors Cabled with Fillers • Paper Wrap														
PVC Insulation • Overall Matte Black PVC Jacket														
High-Flex 60°C 	**1810A**	—	4	Red, Green, White, Black	250 500 1000	76.2 152.4 304.8	26.3 55.5 114.0	11.9 25.2 51.7	.025	.64	.040	1.02	.390	9.91
Compatible with Neutrik Speakon® Connectors.														
High-Flex 60°C 	**1811A**	—	8	Brown, Red, Orange, Yellow, Green, White, Blue, Black	1000	304.8	205.0	93.0	.025	.64	.040	1.02	.515	13.08
Compatible with Neutrik Speakon® Connectors.														
10 AWG Stranded (65x28) Bare High-conductivity ETP Copper Conductors • Highly Stranded for Ultra Flexibility • Rip Cord														
High-grade PVC Insulation • PVC Jacket (Available in Gray)														
High-Flex 75°C, UL 1581 	**5T00UP**	NEC: CL2 Audio Use Only	2	Black, White	500 1000	152.4 304.8	49.5 96.0	22.5 49.5	.020	.38	.026	.66	.356	9.04
Jacket sequentially marked at 2 ft. intervals.														
10 AWG Stranded (65x28) Bare Copper Conductors • Cabled • Rip Cord														
Plenum • Flamarrest® Insulation • Natural Flamarrest Jacket														
High-Flex 150V 75°C 	**6T00UP**	NEC: CL2P Audio Use Only	2	Black, White	1000	304.8	85.0	38.6	.011	.28	.015	.38	.308	7.82
Jacket sequentially marked at 2 ft. intervals.														

For Plenum version of 5T00UP, see 6T00UP.

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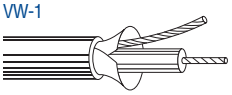
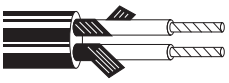
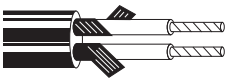
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Special Application
Audio, Communication and Instrumentation Cable

Audio Connecting Cables and Dual Channel Audio Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	pF/Ft.*	pF/m*
25 AWG Stranded (7x33) Conductor • (3) TC, (4) TCCS • Double Beldfoil® Shield (100% Coverage) • 26 AWG Stranded TC Drain Wire																
FPE Insulation • Chrome PVC Jacket																
Miniature 80°C	**8417**	—	1	—	250	76.2	3.3	1.5	.020	.51	.026	.66	.140	3.56	29	95
																
25 AWG Stranded (7x33) Conductor • (3) TC, (4) TCCS • Tinned Copper Spiral Wrapped Shield (86% Coverage)																
FPE Insulation • Chrome PVC Jacket																
Low-Capacitance 80°C	**8421**	—	1	—	250	76.2	4.5	2.0	.051	1.30	.023	.58	.180	4.57	16	53
																
24 AWG Uni-strand (7x32) Tinned Copper Conductor • Beldfoil Shield (100% Coverage)																
Flame-retardant Polypropylene Insulation • Black PVC Jacket																
UL AWM Style 1770 (300V 80°C) VW-1	**9264**	—	1	—	1000	304.8	14.0	6.4	.027	.69	.020	.51	.122 x .146	3.10 x 3.71	30	99
																
Nominal impedance: 50 ohms. Tear-drop, machine strippable coaxial cable.																
Dual Channel • 30 AWG Stranded (7x38) TCCS Conductors • Individual Tinned Copper Spiral Wrapped Shield (85% Coverage)																
FPE Insulation • Black PVC Jacket • Polarity Ribbed																
Low-Capacitance 70°C	**9454**	—	2	—	100	30.5	3.5	1.6	.049	1.24	.020	.51	.160 x .320	4.06 x 8.13	12 each channel	39
																
Stereo connecting cable																
Dual Channel • 25 AWG Stranded (7x38) Conductors • (3) TC, (4) TCCS • Individual TC Spiral Wrapped Shield (90% Coverage)																
Polyethylene Insulation • Gray PVC Jacket • Polarity Rib on Red Conductor																
80°C	**8416**	—	2	—	250	76.2	4.8	2.2	.018	.46	.020	.51	.106 x .213	2.69 x 5.41	36 each channel	118
																
For use with head sets, stereo and language labs.																

FPE = Foam Polyethylene • TC = Tinned Copper • TCCS = Tinned Copper-covered Steel

*Capacitance between conductors.

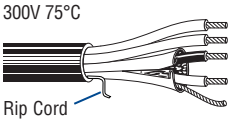
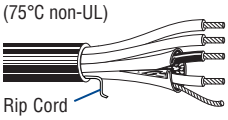
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Special Application Audio, Communication and Instrumentation Cable

Multimedia Control Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors (Data), STP w/Beldfoil®, TC Drain Wire • **18 AWG** (16x30) TC Conductors (Power), Unshielded Pair																		
FPE Insulation (Data) • **F-R PVC Insulation** (Power) • **F-R PVC Jacket** (Available in Black, White or Aqua)																		
300V 75°C  Rip Cord	**1502R**	NEC: CMR CEC: CMG FT4	1 STP +2/C	Pair: Blue, White Cond.: Red, Black	500 1000	152.4 304.8	20.0 44.0	9.1 20.0	Data: .025 Power: .013	.64 .33	.039	.99	.250	6.35	14	46	38	125
22 AWG Data Pair Impedance: 100Ω																		
Sequential footing marking every two feet.																		
22 AWG (7x30) TC Conductors, STP w/Beldfoil, TC Drain Wire • **18 AWG** (16x30) TC Conductors Unshielded • Polypropylene Binder Tape																		
Plenum • Foam FEP Insulation (Data) • **Flamarrest® Insulation** (Power) • **Natural Flamarrest Jacket**																		
300V 60°C (75°C non-UL)  Rip Cord	**1502P**	NEC: CMP CEC: CMP FT6	1 STP +2/C	Pair: Blue, White Cond.: Red, Black	1000	304.8	31.0	14.1	Data: .025 Power: .011	.64 .28	.015	.381	.205	5.21	14	46	38	125
22 AWG Data Pair Impedance: 100Ω																		

BC = Bare Copper • DCR = DC Resistance • EPDM = Ethylene Propylene Diene Monomer • FEP = Fluorinated Ethylene Propylene • FPE = Foam Polyethylene • F-R = Flame-retardant • STP = Shielded Twisted Pair • TC = Tinned Copper

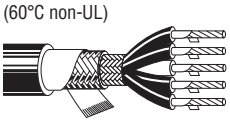
*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Special Application
Audio, Communication and Instrumentation Cable
Microphone/Musical Instrument Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
Mic • 20 AWG Stranded (19x32) High-conductivity TC Conductors, Cabled • Rayon Braid • TC Braid Shield (84% Coverage)																		
Polyethylene Insulation • Chrome PVC Jacket																		
Low-Impedance UL AWM Style 2094 (300V 60°C) VW-1 	**8405**	—	5	Black, Clear, Green, Red, Blue	250 500 1000	46.2 152.4 304.8	14.8 29.5 63.0	6.7 13.4 28.6	.016	.41	.035	.89	.281	7.14	23	76	40	131
Mic • 20 AWG Stranded (26x34) High-conductivity TC Conductors, Cabled • Cotton Wrap • Rayon Braid • TC Braid Shield (85% Coverage)																		
Rubber Insulation • Black EPDM Rubber Jacket																		
Low-Impedance 600V RMS 90°C (60°C non-UL) 	**8425**	—	5	Blue, Orange, Black, White, Brown	100 250	30.5 46.2	7.8 17.3	3.5 7.8	.023	.58	.031	.79	.318	8.08	30	98	55	180
	8426	—	6	(Same as 8425) + Green	100 250	30.5 46.2	9.0 21.0	4.1 9.5	.023	.58	.037	.94	.342	8.69	30	98	55	180
	8427	—	7	(Same as 8426) + Red	100 250	30.5 46.2	9.8 22.3	4.5 10.1	.023	.58	.041	1.04	.355	9.02	30	98	55	180
	8418	—	8	(Same as 8427) + Yellow	100 250	30.5 46.2	11.0 25.0	5.0 11.3	.023	.58	.037	.94	.381	9.68	30	98	55	180

EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

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Standard Analog Video Cable

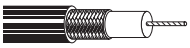
75 Ohm Miniature Coax

BRILLIANCE®

Belden standard video cables are typically used in non-critical video applications such as video equipment rack wiring, closed circuit TV (CCTV), master antenna TV(MATV) and color or monochrome video monitor hook-ups. Applications such as these do not require Precision Video coaxes which have extremely tight electrical tolerances. (See Precision Video cables, pages 19.49 through 19.58.)

Video coax cables have a characteristic impedance of 75 ohms. This value was not chosen arbitrarily. Physics shows that optimum attenuation characteristics occur at 77 ohms. Materials and design lead to the selection of 75 ohms as the optimum compromise for low power applications.

Standard video coaxes are available in both solid and stranded designs. Stranded designs are recommended for flexing applications such as interconnection of CCTV cameras with pan and tilt capabilities, or remote camera hook-ups where the cable is constantly being spooled and despooled from a reel. Belden's Brilliance high-flex part no. 8241F is ideal for these types of applications.

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Insulation Diameter		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
30 AWG Stranded (7x38) .012″ Tinned Copper Conductor • Tinned Copper Braid Shield (89% Coverage)																			
Foam HDPE Insulation • Black PVC Jacket																			
UL AWM Style 1375 (30V 60°C)	**9221**	—	100 U-500 500	30.5 U-152.4 152.4	1.5 4.0 4.0	1.0 1.8 1.8	30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km	.058	1.47	TC Braid 89% Shield Coverage 11.7Ω/M′ 38.4Ω/km	.097	2.46	75	78%	17.3	56.8	1 4 5 10 50 100 200 400 1000	.7 1.3 1.6 2.2 5.1 7.3 10.5 15.5 26.6	2.3 4.3 5.2 7.2 16.7 23.9 34.4 50.9 87.3
																			
27 AWG Stranded (7x35) .017″ Bare Copper-covered Steel Conductor • Tinned Copper Braid Shield (93% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 60°C) (1700V non-UL)	**8218**	—	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	8.5 8.0 16.0 14.0	3.9 3.6 7.3 6.4	27 AWG (7x35) .017″ BCCS 120.0Ω/M′ 393.7Ω/km	.100	2.54	TC Braid 93% Shield Coverage 5.7Ω/M′ 18.7Ω/km	.150	3.81	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	1.2 2.4 4.2 5.7 8.3 12.1 16.5 19.0 20.0	3.9 7.9 13.8 18.7 27.2 39.7 54.1 62.3 65.6
																			
Miniature • 25 AWG Solid .018″ Tinned Copper Conductors • Duobond® (100% Coverage) + TC Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
	**1281R** new	NEC: CMR CEC: CMG	1	1000	304.8	8.0	3.6	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.074	1.88	Duobond (100%) + TC Braid 5.4Ω/M′ 17.7Ω/km	.114	2.90	75	80%	17.0	55.8	1 5 50 100 200 400 700 900 1000 3000	.5 1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8 31.2	1.7 3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8 102.4
Plenum • FPFA Insulation • Black Flamarrest® Jacket																			
	**1282P** new	NEC: CMP CEC: CMP FT6	1	1000	304.8	10.0	4.5	25 AWG (solid) .018″ TC 31.8Ω/M′ 104.3Ω/km	.074	1.88	Duobond (100%) + TC Braid 5.8Ω/M′ 19.0Ω/km	.114	2.90	75	81%	17.0	55.8	1 5 50 100 200 400 700 900 1000 3000	.4 .9 3.7 5.0 7.0 10.0 14.5 17.0 17.5 37.0	1.3 3.0 12.1 16.4 23.0 32.8 47.6 55.8 57.4 121.4

Sweep Tested 5 MHZ to 850 MHz.
Guaranteed Return Loss –20dB Max.
See page 19.71 for Bundled versions.

Sweep Tested 5 MHZ to 850 MHz.
Guaranteed Return Loss –20dB Max.
See page 19.71 for Bundled versions.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper

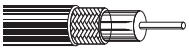
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Standard Analog Video Cable

75 Ohm High-Frequency Cables
Conformable® Coax Cable

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Insulation Diameter		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
29 AWG Solid .011″ Silver-coated Copper-covered Steel Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon® Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C) (1500V RMS 200°C non-UL)	**1672A***	—	500 †† 1000 ††	152.4 304.8	7.5 14.0	3.4 6.4	29 AWG (solid) .011″ SCCCS 205.0Ω/M′ 672.4Ω/km	.062	1.57	CT Composite 100% Shield Coverage 10.0Ω/M′ 33.5Ω/km	.087	2.21	75	69.5%	19.5	64.0	1 10 50 100 200 400 700 1000	1.6 1.8 4.1 6.5 9.0 12.8 18.0 22.1	5.3 5.9 13.5 21.3 29.5 42.0 59.1 72.5
																			
TFE Teflon Insulation • PVC Jacket (Black or Clear)																			
UL AWM Style 10245 (30V 105°C) (1500V RMS 200°C non-UL)	**1672J***	—	100 †▲ 500 † 1000 ††	30.5 152.4 304.8	3.1 9.5 17.0	1.4 4.3 7.7	29 AWG (solid) .011″ SCCCS 205.0Ω/M′ 672.4Ω/km	.062	1.57	CT Composite 100% Shield Coverage 10.0Ω/M′ 33.5Ω/km	.127	3.23	75	69.5%	19.5	64.0	1 10 50 100 200 400 700 1000	1.6 1.8 4.1 6.5 9.0 12.8 18.0 22.1	5.3 5.9 13.5 21.3 29.5 42.0 59.1 72.5
																			
29 AWG Solid .011″ Silver-plated Copper Conductor • Copper-Tin Composite Shield (100% Coverage)																			
TFE Teflon Insulation • Unjacketed																			
UL AWM Style 10245 (30V 105°C) (1500V RMS 200°C non-UL)	**1672B***	—	100 † 500 † 1000 †	30.5 152.4 304.8	2.5 7.5 14.0	1.1 3.4 6.4	29 AWG (solid) .011″ SPC 11.0Ω/M′ 36.9Ω/km	.062	1.57	CT Composite 100% Shield Coverage 10.0Ω/M′ 33.5Ω/km	.087	2.21	75	69.5%	19.5	64.0	1 10 50 100 200 400 700 1000	1.2 1.8 4.1 6.5 9.0 12.8 18.0 22.1	3.9 5.9 13.5 21.3 29.5 42.0 59.1 72.5
																			

▲100 ft. put-up available in Clear only.

Non-ferrous design

CT = Copper Tin • DCR = DC Resistance • SCCCS = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

*Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

†May contain more than one piece. Minimum length of any one piece is 25 ft.

††500 ft. put-up: Exact 5 pieces (maximum), 50 feet minimum length
1000 ft. put-up: Exact 8 pieces (maximum), 50 feet minimum length

Teflon is a DuPont trademark.

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Standard Analog Video Cable

75 Ohm Coax
RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Insulation Diameter		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
23 AWG Solid .023″ Bare Copper or Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black or Colored PVC Jacket▲																			
UL AWM Style 1354 (30V 75°C) VW-1 300V RMS (UL) 1700V RMS (non-UL)	**8241**	NEC: CM CEC:	100 U-500 500 U-1000▲ 1000 2000 5000	30.5 U-152.4 152.4 U-304.8 304.8 609.6 1524.0	4.4 19.5 18.5 38.0 40.0 80.0 200.0	2.0 8.8 8.4 17.2 18.1 36.3 90.7	23 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.240	6.09	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	.6 1.1 2.4 3.4 4.9 7.0 9.7 11.1 12.0	2.0 3.6 7.9 11.2 16.1 23.0 31.8 36.4 39.4
For Plenum versions of 8241, see 88241 or 82241.																			
▲U-1000 ft. put-up also available in Red, Orange, Yellow, Green, Blue or White.																			
Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 75°C) 300V RMS (UL)	**8241A**	NEC: CMG CEC: CMG FT4	U-1000 1000	U-304.8 304.8	40.0 42.0	18.1 19.0	23 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	66%	20.5	67.3	1 5 10 50 100 200 400 700 900 1000	.6 .9 1.1 2.4 3.4 4.9 7.0 10.1 11.7 13.2	2.0 3.0 3.6 7.9 11.2 16.1 23.0 33.1 38.2 43.3
Suitable for Indoor and Outdoor applications.																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C) 300V RMS (UL) 1700V RMS (non-UL)	**8241B**	NEC: CM CEC: CM	U-1000 1000	U-304.8 304.8	36.0 37.0	16.3 16.8	23 AWG (solid) .023″ BC 20.4Ω/M′ 66.9Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.242	6.15	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	.4 1.1 2.4 3.4 4.9 7.0 9.7 11.1 12.0	1.3 3.6 7.9 11.2 16.1 23.0 31.8 36.4 39.4
Suitable for Indoor and Outdoor applications.																			
22 AWG Stranded (7x30) .030″ Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)																			
Foam Polyethylene Insulation • PVC Jacket (Available in Matte Black, Red, Blue, Green, Yellow, White or Gray)																			
High-Flex 60°C 300V RMS (non-UL)	**8241F**	—	1000	304.8	35.0	15.9	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	78%	17.3	56.8	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 8.9 10.1 10.9	1.0 3.0 6.9 9.8 14.8 21.7 29.2 33.1 35.8
23 AWG Solid .023″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (97% Coverage)																			
Plenum • FEP Insulation • Black FEP Jacket																			
200°C 300V RMS (UL) 1700V RMS (non-UL)	**88241**	NEC: CMP CEC: CMP FT6	500 1000	152.4 304.8	18.0 36.0	8.2 16.3	23 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.132	3.35	BC Braid 97% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.190	4.83	75	69.5%	19.5	64.0	1 10 50 100 200 400 700 900 1000	.5 1.0 2.3 3.3 5.2 8.4 11.6 13.8 14.8	1.6 3.3 7.5 10.8 17.1 27.6 38.0 45.3 48.5
Suitable for Outdoor and Direct Burial applications.																			
Plenum • FEP Insulation • Natural Flamarrest® Jacket																			
60°C 300V RMS (UL) 1700V RMS 75°C (non-UL)	**82241**	NEC: CMP CEC: CMP FT6	U-500 U-1000 1000	U-152.4 U-304.8 304.8	18.5 36.0 34.0	8.4 16.3 15.4	23 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.134	3.40	BC Braid 97% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.190	4.83	75	69.5%	19.5	64.0	1 10 50 100 200 400 700 900 1000	.5 1.0 2.3 3.3 5.2 8.4 11.6 13.8 14.8	1.6 3.3 7.5 10.8 17.1 27.6 38.0 45.3 48.5

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

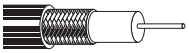
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Standard Analog Video Cable

75 Ohm Coax
RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Insulation Diameter		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
23 AWG Solid Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 60°C) VW-1	**8263**	NEC: CMX CEC: CMX	U-500 U-1000 1000	U-152.4 U-304.8 304.8	19.5 38.0 39.0	8.9 17.2 17.7	23 AWG (solid) .023″ BCCS 49.0Ω/M′ 160.7Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	.6 1.1 2.4 3.4 4.9 7.0 9.7 11.1 12.0	2.0 3.6 7.9 11.2 16.1 23.0 31.8 36.4 39.4
																			
150V RMS (UL), 1700V RMS (non-UL) Non-contaminating Black PVC Jacket. Suitable for Indoor and Outdoor applications.																			
22 AWG Solid Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (85% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C) VW-1	**9244**	NEC: CMX CEC: CMX	U-500 U-1000 1000 3280	U-152.4 U-304.8 304.8 1000.0	18.0 35.0 36.0 118.1	8.2 15.9 16.4 53.8	22 AWG (solid) .025″ BCCS 50.0Ω/M′ 164.0Ω/km	.146	3.71	BC Braid 85% Shield Coverage 4.5Ω/M′ 14.8Ω/km	.242	6.15	75	66%	19.4	63.6	1 10 50 100 200 400 700 900 1000	.6 1.1 2.4 3.4 4.9 7.0 9.7 11.1 12.0	2.0 3.6 7.9 11.2 16.1 23.0 31.8 36.4 39.4
											100% Sweep tested. 5 MHz to 450 MHz.								
150V RMS (UL), 1700V RMS (non-UL) Suitable for Indoor and Outdoor applications.																			
Foam Polyethylene Insulation • Black PVC Jacket																			
75°C 300V RMS (non-UL)	**8221**	—	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	18.5 17.0 36.0 37.0	8.4 7.7 16.3 16.8	22 AWG (solid) .025″ BCCS 50.0Ω/M′ 164.0Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	80	78%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.4 .9 2.0 2.9 4.1 5.9 7.8 8.8 9.9	1.4 3.0 6.6 9.5 13.4 19.4 25.6 28.9 32.5
																			

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

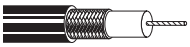
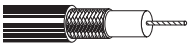
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Standard Analog Video Cable

75 Ohm Coax
RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Insulation Diameter		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
22 AWG Stranded (7x30) .030″ Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)																			
Foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C) VW-1, FT-1	**9659**	NEC: CMX CEC: CMX	U-500 U-1000 1000	U-152.4 U-304.8 304.8	19.0 37.0 38.0	8.6 16.8 17.2	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 8.9 10.1 10.9	1.0 3.0 6.9 9.8 14.8 21.6 29.2 33.1 35.8
											100% Sweep tested. 5 MHz to 450 MHz.								
Non-contaminating PVC Jacket. For CCTV, Indoor and Outdoor applications.																			
UL AWM Style 1354 (30V 80°C) 300V RMS (UL)	**9259**	NEC: CM CEC: CM	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.1 18.0 16.5 35.0 37.0	1.9 8.2 7.5 15.9 16.8	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.241	6.12	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 8.9 10.1 10.9	1.0 3.0 6.9 9.8 14.8 21.7 29.2 33.1 35.8
											For Plenum versions of 9259, see 89259 or 82259.								
For CCTV, Indoor and Outdoor applications.																			
Plenum • Foam FEP Insulation • Black FEP Jacket																			
200°C 300V RMS (UL)	**89259**	NEC: CMP CEC: CMP FT6	100 500 1000	30.5 152.4 304.8	5.1 16.0 32.0	2.3 7.3 14.5	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.135	3.43	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.193	4.90	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 9.0 10.1 11.0	1.0 3.0 6.9 9.8 14.8 21.6 29.5 33.1 36.1
																			
Suitable for Outdoor and Direct Burial applications.																			
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
75°C 300V RMS (UL)	**82259**	NEC: CMP CEC: CMP FT6	U-1000 1000	U-304.8 304.8	31.0 30.0	14.1 13.6	22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.135	3.43	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.193	4.90	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 9.0 10.1 11.0	1.0 3.0 6.9 9.8 14.8 21.6 29.5 33.1 36.1
																			

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

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Standard Analog Video Cable

75 Ohm Coax
RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
20 AWG Solid .032″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (80% Coverage)																			
Foam Polyethylene Insulation • Black PVC Jacket																			
75°C	**9240**	—	1000†	304.8	31.0	14.1	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.143	3.63	BC Braid 80% Shield Coverage 5.6Ω/M′ 18.4Ω/km	.241	6.12	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.6 1.0 2.1 3.0 4.5 6.6 8.9 10.1 10.9	2.0 3.3 6.9 9.8 14.8 21.6 29.2 33.1 35.8
											100% Sweep tested. 5 MHz to 850 MHz.								
20 AWG Solid .032″ Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)																			
Foam Polyethylene Insulation • Black Polyethylene Jacket																			
80°C	**8212**	—	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	16.5 15.0 31.0 33.0	7.5 6.8 14.1 15.0	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.143	3.63	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.6 1.0 2.1 3.0 4.5 6.6 8.9 10.1 10.9	2.0 3.3 6.9 9.8 14.8 21.6 29.2 33.1 35.8
											100% Sweep tested. 5 MHz to 450 MHz.								
Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**9274**	NEC: CM CEC: CM	500 1000	152.4 304.8	15.5 35.0	7.0 15.9	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.143	3.63	BC Braid 95% Shield Coverage 3.5Ω/M′ 11.5Ω/km	.240	6.10	75	82%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.6 1.0 2.1 3.0 4.5 6.6 8.9 10.1 10.9	2.0 3.3 6.9 9.8 14.8 21.6 29.2 33.1 35.8
											100% Sweep tested. 5 MHz to 450 MHz.								
20 AWG Solid .032″ Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 75°C) 60°C (UL)	**1426A**	NEC: CM	U-1000	U-304.8	35.0	15.9	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145	3.68	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242	6.15	75	83%	16.3	53.5	1 10 50 100 200 400 700 900 1000	.3 .9 1.9 2.6 3.6 5.0 7.0 8.0 8.5	1.0 3.0 6.2 8.5 11.8 16.4 23.0 26.3 27.9
Series 59 • 20 AWG Solid .032″ Bare Copper-covered Steel Conductor • Duofoil® or Duobond® + Aluminum Braid Shield (40% Coverage)																			
Gas-injected Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**9275**	NEC: CATV CM CEC: CM	U-500 U-1000▲ 1000	U-152.4 U-304.8 304.8	12.0 23.0 24.0	5.5 10.4 10.9	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.144	3.66	Duofoil + 40% Aluminum Braid 17.0Ω/M′ 55.8Ω/km	.237	6.02	75	83%	16.2	53.1	See Chart on page 6.88		
											100% Sweep tested. 5 MHz to 550 MHz.								
▲U-1000 ft. put-up also available in White.																			
80°C	**9100**	NEC: CATV CM CEC: CM	U-500 U-1000◆ 1000	U-152.4 U-304.8 304.8	12.0 23.0 24.0	5.5 10.4 10.9	20 AWG (solid) .032″ BCCS 44.5Ω/M′ 146.0Ω/km	.144	3.66	Duobond II + 40% Aluminum Braid 17.0Ω/M′ 55.8Ω/km	.237	6.02	75	83%	16.2	53.1	See Chart on page 6.88		
											100% Sweep tested. 5 MHz to 1 GHz.								
◆U-1000 ft. put-up also available in White.																			

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±5% from length shown.

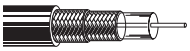
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Standard Analog Video Cable

75 Ohm Coax
RG-6/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
21 AWG Solid .028″ Bare Copper-covered Steel Conductor • Bare Copper Double Braid Shields (98% Coverage)																			
Polyethylene Insulation • Black Polyethylene Jacket																			
MATV Cable 80°C	**8215**	—	1000	304.8	74.0	33.6	21 AWG (solid) .028″ BCCS 32.0Ω/M′ 105.0Ω/km	.185	4.70	(2) BC Braids 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.332	8.43	75	66%	20.5	67.2	1 10 50 100 200 400 700 900 1000	.4 .8 1.9 2.7 4.1 5.9 8.1 9.4 9.8	1.3 2.6 6.2 8.9 13.4 19.4 26.6 30.8 32.1
											100% Sweep tested. 5 MHz to 450 MHz.								
18 AWG Solid .037″ Bare Copper Conductor • Bare Copper Double Braid Shields (98% Coverage)																			
Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**9290**	NEC: CM CEC: CM	1000 2000	304.8 609.6	59.0 118.0	26.8 53.5	18 AWG (solid) .037″ BC 7.5Ω/M′ 24.6Ω/km	.180	4.57	(2) BC Braids 98% Shield Coverage 2.0Ω/M′ 6.6Ω/km	.288	7.32	75	81%	17.3	56.7	1 10 50 100 200 400 700 900 1000	.2 .7 1.7 2.5 3.6 5.0 7.2 8.3 8.8	.7 2.3 5.6 8.2 11.8 16.4 23.6 27.2 28.9
											100% Sweep tested. 5 MHz to 450 MHz.								
Suitable for Indoor and Outdoor applications.																			
18 AWG Solid .040″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (60% Coverage)																			
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C)	**9248**	NEC: CM CEC: CM	U-500 500 U-1000 1000 1640 3280	U-152.4 152.4 U-304.8 304.8 500.0 1000.0	16.5 15.0 32.0 33.0 55.8 108.2	7.5 6.8 14.5 15.0 25.3 49.2	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duofoil + 60% TC Braid 5.6Ω/M′ 18.4Ω/km	.270	6.86	75	82%	16.2	53.1	1 10 50 100 200 400 700 900 1000	.3 .7 1.5 2.0 2.8 4.0 5.3 6.1 6.5	1.0 2.3 4.9 6.6 9.2 13.1 17.4 20.0 21.3
											For Plenum versions of 9248, see 89248 or 82248. 100% Sweep tested. 5 MHz to 450 MHz.								
18 AWG Solid .040″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)																			
Plenum • Foam FEP Insulation • Black FEP Jacket																			
200°C	**89248**	NEC: CMP CEC: CMP FT6	500 1000 2000	152.4 304.8 609.6	15.0 33.0 64.0	6.8 15.0 29.0	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.170	4.32	Duofoil + 65% TC Braid 5.1Ω/M′ 16.7Ω/km	.222	5.64	75	82%	16.5	54.1	1 10 50 100 200 400 700 900 1000	.3 .7 1.5 2.1 3.1 4.5 6.0 6.9 7.3	1.0 2.3 4.9 6.9 10.2 14.8 19.7 22.6 23.9
											100% Sweep tested. 5 MHz to 450 MHz.								
Suitable for Outdoor and Direct Burial applications.																			
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
75°C	**82248**	NEC: CMP CEC: CMP FT6	U-1000 1000	U-304.8 304.8	29.0 31.0	13.2 14.1	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.170	4.32	Duofoil + 65% TC Braid 5.1Ω/M′ 16.7Ω/km	.222	5.64	75	82%	16.5	54.1	1 10 50 100 200 400 700 900 1000	.3 .7 1.6 2.2 3.0 4.6 6.6 7.7 8.2	1.0 2.3 5.2 7.2 9.8 15.1 21.6 25.3 26.9
											100% Sweep tested. 5 MHz to 450 MHz.								

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

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Standard Analog Video Cable

75 Ohm Coax
RG-11/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
18 AWG Stranded (7x26) .048″ Tinned Copper Conductor • Bare Copper Braid Shield (97% Coverage)																			
Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket																			
80°C	**8238**	NEC: CM CEC: CM	500 1000	152.4 304.8	59.0 117.0	26.8 53.2	18 AWG (7x26) .048″ TC 6.1Ω/M′ 20.0Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.2Ω/M′ 3.9Ω/km	.405	10.29	75	66%	20.5	67.2	1 10 50 100 200 400 700 900 1000	.2 .7 1.3 2.0 2.9 4.2 5.8 6.8 7.1	.6 2.2 4.3 6.6 9.5 13.8 19.0 22.3 23.3
Suitable for Indoor and Outdoor applications.																			
Polyethylene Insulation • Black PVC Jacket*																			
60°C VW-1	**8261**	CEC: CXC	500 1000	152.4 304.8	52.5 104.0	23.9 47.3	18 AWG (7x26) .048″ TC 6.1Ω/M′ 20.0Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.2Ω/M′ 3.9Ω/km	.405	10.29	75	66%	20.5	67.2	1 10 50 100 200 400 700 900 1000	.2 .7 1.3 2.0 2.9 4.2 5.8 6.8 7.1	.6 2.2 4.3 6.6 9.5 13.8 19.0 22.3 23.3
*Non-contaminating PVC jacket. Suitable for Indoor and Outdoor applications.																			
14 AWG Solid .064″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (60% Coverage)																			
Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
80°C	**9292**	—	1000	304.8	75.0	36.8	14 AWG (solid) .064″ BC 2.6Ω/M′ 8.5Ω/km	.280	7.11	Duofoil + 60% TC Braid 3.0Ω/M′ 9.8Ω/km	.405	10.29	75	84%	16.1	52.8	1 10 50 100 200 400 700 900 1000	.2 .5 .9 1.3 1.6 2.3 3.3 4.0 4.3	.6 1.6 3.0 4.3 5.3 7.6 10.8 13.1 14.1
Suitable for Indoor and Outdoor applications.											For Plenum versions of 9292, see 89292. 100% Sweep tested. 5 MHz to 450 MHz.								
14 AWG Solid .064″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (63% Coverage)																			
Plenum • Foam FEP Insulation • Black FEP Jacket																			
200°C	**89292**	NEC: CMP CATVP CEC: CMP FT6	500† 1000†	152.4 304.8	40.5 81.0	18.4 36.7	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.274	6.96	Duofoil + 63% TC Braid 3.0Ω/M′ 9.8Ω/km	.346	8.79	75	83%	16.2	53.1	1 10 50 100 200 400 700 900 1000	.2 .4 1.0 1.5 2.2 3.3 4.5 5.2 5.5	.5 1.3 3.3 4.9 7.2 10.8 14.8 17.1 18.0
											100% Sweep tested. 5 MHz to 450 MHz.								
14 AWG Solid .064″ Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)																			
Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**8213**	—	500 1000 2000	152.4 304.8 609.6	44.0 87.0 172.0	20.0 39.5 78.2	14 AWG (solid) .064″ BC 2.6Ω/M′ 8.5Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.405	10.29	75	84%	16.1	52.8	1 10 50 100 200 400 700 900 1000	.2 .4 .9 1.3 1.9 2.9 4.1 4.8 5.2	.6 1.1 3.0 4.3 6.2 9.5 13.5 15.7 17.1
Suitable for Indoor and Outdoor applications.											100% Sweep tested. 5 MHz to 450 MHz.								

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

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Precision Video Cable for Analog and Digital

Overview

BRILLIANCE®

Analog Video

Belden® precision video cables are used in critical analog and digital video circuits and high quality applications such as live broadcast in network studios and pre- or post-production facilities. They should be used where superior signal integrity is required.

Precision video cables usually have solid center conductors and dual shields. The dielectrics can either be foamed or solid. Tighter impedance and attenuation tolerances, superior Return Loss (RL) specifications, and improved shielding give precision video cables their no-compromise performance.

The frequency response loss curves of the solid dielectric cables, such as 8281, are different from those with foam dielectric, like 1505A. Therefore, different equalization equipment is necessary and commercially available. Avoid mixing 8281 and 1505A for this reason.

Digital Video

Precision video cables are also recommended for the latest digital video applications. Since its inception in the early ‘80s, digital broadcast is quickly becoming the preferred video format. The advantages of the digital format are many. Digital is very stable, minimizing equipment adjustments. Copies or reproductions retain the quality of the original. Signal degradation is virtually eliminated, and noise immunity is greatly improved. Digital video is transmitted over a cable in either a Parallel or Serial format.

Parallel Digital Video (D_1, D_2 & D_3)

The Parallel format transmits each bit of an 8 or 10 bit digital word simultaneously or parallel down a separate signal path at a frequency of 27 Mb/s. This type of transmission requires the use of a 100 to 120 ohm 12-1/2 pair data cable (Belden part nos. 8142 or 8112 page 19.56). These cables are limited to a transmission distance of less than 30 meters.

Serial Digital Video (SDI)

The Society of Motion Picture and Television Engineers (SMPTE) has developed two different standards for serial digital transmissions (SDI). A third format that transmits at 540 Mb/s is under development. There is also a European standards body known as ITU (formerly CCIR) that developed the specifications for Europe known as PAL. Each of these specifications differs in frequency and transmission technology, i.e., composite or component.

- **SMPTE 259M** — Covers digital video transmissions of composite NTSC 143 Mb/s (Level A) and PAL 177 Mb/s (Level B). It also covers 525/625 component transmissions of 270 Mb/s (Level C) and 360 Mb/s (Level D).
- **SMPTE 292M** — Covers the newest format for HDTV transmissions at 1.458 Gb/s.
- **SMPTE 344M** — Covers component widescreen transmissions of 540 Mb/s.
- **ITU-R BT.601** — International standard covers component PAL transmissions of 177 Mb/s.

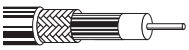
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Precision Video Cable for Analog and Digital

Sub-Miniature RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
28.5 AWG Solid .012″ Bare Copper Conductor • Duobond® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*																			
DigiTruck® SDI/HDTV Digital Video 75°C	**179DT** new	NEC: CMR CEC: CMG FT4	500▲ 1000	152.4 304.8	5.0 8.0	2.3 3.6	28.5 AWG (solid) .012″ BC 108Ω/M′ 350Ω/km	.056	1.42	Duobond (100%) + TC Braid (95% Cov.) 8.9Ω/M′ 29.2Ω/km	.100	2.54	75	77%	17.4	57.4	1 5 10 67.5 71.5 100 135 270 360 540 720 750 1000 1500 2000 2250 3000	1.2 1.9 2.4 5.9 6.0 6.9 7.9 10.8 12.5 15.4 17.9 18.3 21.3 26.3 30.8 32.8 38.3	3.9 6.1 7.8 19.3 19.6 22.6 25.8 35.4 41.0 50.5 58.7 60.0 69.9 86.3 101.1 107.6 125.7
																			
											100% Sweep Tested to 3 GHz. Guaranteed Return Loss: -21dB Min.								
▲500 ft. put-up available in Black only.																			
25 AWG Stranded (19x37) .021″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*																			
SDI/HDTV Digital Video 75°C	**1865A**	NEC: CMR CEC: CMG FT4	1000	304.8	14.0	6.4	25 AWG (19x37) .021″ BC 27.4Ω/M′ 89.9Ω/km	.094	2.39	Duofoil (100%) + TC Braid (95% Cov.) 5.4Ω/M′ 17.7Ω/km	.150	3.81	75	82%	16.5	54.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.5 1.0 1.6 3.7 5.0 7.1 8.2 10.1 11.8 12.0 13.9 17.0 20.8 24.0	1.5 3.1 5.2 12.1 16.4 23.3 26.9 33.1 38.7 39.4 45.6 55.8 68.2 78.7
																			
											100% Sweep tested. 5 MHz to 3 GHz.								
23 AWG Solid .023″ Bare Copper Conductor • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*																			
SDI/HDTV Digital Video 75°C	**1855A**	NEC: CMR CEC: CMG FT4	500▲ 1000	152.4 304.8	9.0 16.0	4.1 7.3	23 AWG (solid) .023″ BC 20.1Ω/M′ 65.9Ω/km	.102	2.59	Duofoil (100%) + TC Braid (95% Cov.) 7.6Ω/M′ 24.9Ω/km	.159	4.03	75	82%	16.3	53.5	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.4 .8 1.2 3.1 3.8 5.4 6.2 7.7 9.5 9.6 10.5 13.0 16.0 18.5	1.3 2.6 3.9 10.0 12.5 17.7 20.3 25.3 31.1 31.5 34.4 42.6 52.5 60.7
											Also available in multiples, bundled. See 7787A through 7792A. 100% Sweep tested. 5 MHz to 3 GHz.								
▲500 ft. put-up available in Black only.																			

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.

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Precision Video Cable for Analog and Digital

Miniature RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Insulation Diameter		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
23 AWG Stranded (7x32) .023″ Bare Compacted Copper Conductor* • Tinned Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Polyethylene Jacket																			
80°C 	**8279**	—	500 1000	152.4 304.8	13.0 29.0	5.9 13.2	23 AWG (7x32) .023″ BCC 19.1Ω/M′ 62.6Ω/km	.146	3.71	TC + 95% Shield Coverage 4.5Ω/M′ 14.8Ω/km	.220	5.59	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.4 .6 1.2 3.3 4.7 6.8 8.0 9.9 11.6 11.9 13.8	1.1 2.0 3.9 10.8 15.4 22.3 26.2 32.5 38.0 39.0 45.3
											100% Sweep tested. 5 MHz to 850 MHz.								
23 AWG Solid .022″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black Polyethylene Jacket																			
80°C 	**9209**	—	U-500 U-1000	U-152.4 U-304.8	15.0 29.0	6.8 13.2	23 AWG (solid) .022″ BC 20.4Ω/M′ 66.9Ω/km	.146	3.71	Duofoil + 95% TC Braid 4.5Ω/M′ 14.8Ω/km	.220	5.59	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.4 .5 1.2 2.9 4.0 5.6 6.6 8.3 9.7 9.9 11.6	1.2 1.8 3.8 9.5 13.0 18.4 21.5 27.2 31.7 32.5 38.0
											100% Sweep tested. 5 MHz to 850 MHz.								
Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 75°C) 	**9209A**	NEC: CMR CEC: CMG FT4	U-1000	U-304.8	35.0	15.9	23 AWG (solid) .022″ BC 20.4Ω/M′ 66.9Ω/km	.146	3.71	Duofoil + 95% TC Braid 4.5Ω/M′ 14.8Ω/km	.220	5.59	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.4 .5 1.2 2.9 4.0 5.6 6.6 8.6 10.1 10.4 12.8	1.2 1.8 3.8 9.5 13.0 18.4 21.5 28.3 33.2 34.1 41.9
											100% Sweep tested. 5 MHz to 850 MHz.								

BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

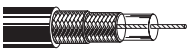
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Precision Video Cable for Analog and Digital

RG-59/U Type and
Double Braided RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
20 AWG Solid .032″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)◆																			
SDI/HDTV Digital Video 75°C 	**1505A**	NEC: CMR CEC: CMG FT4	500▲ 1000◆ 5000◆	152.4 304.8 1524.0	15.5 35.0 165.0	7.0 15.9 74.8	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145	3.68	Duofoil + 95% TC Braid 3.8Ω/M′ 12.5Ω/km	.233	5.92	75	83%	16.3	53.5	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.3 .6 .9 2.1 2.7 3.8 4.4 5.5 6.4 6.5 7.6 9.3 11.6 13.4	1.0 1.8 2.9 6.9 8.9 12.5 14.4 18.0 21.0 21.3 24.9 30.5 38.0 44.0
											For Plenum version of 1505A, see 1506A. Also available in bundled versions. See 7794A through 7798A. 100% Sweep tested. 5 MHz to 3 GHz.								
▲500 ft. put-up available in Black, Red or Blue only. ◆1000 ft. and 5000 ft. put-ups available in all ten colors: Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.																			
Plenum • Foam FEP Teflon® Insulation • Flamarrest® Jacket (Available in 10 colors)■																			
SDI/HDTV Digital Video 75°C 	**1506A**	NEC: CMP CEC: CMP FT6	500▼ 1000	152.4 304.8	14.5 29.0	6.6 13.2	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.133	3.38	Duofoil + 95% TC Braid 3.2Ω/M′ 10.5Ω/km	.196	4.98	75	84%	16.1	52.8	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.3 .6 1.1 2.3 3.2 4.6 5.3 6.4 7.3 7.5 9.4 12.8 17.5 21.9	1.0 2.0 3.4 7.4 10.5 14.9 17.2 21.0 23.9 24.6 30.8 42.0 57.4 71.8
											100% Sweep tested. 5 MHz to 3 GHz.								
▼500 ft. put-up available in Black or Natural only. ■1000 ft. put-up available in all ten colors: Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, Natural or Black.																			
22 AWG Stranded (7x29) .031″ Bare Compacted Copper Conductor* • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)																			
Polyethylene Insulation • PVC Jacket (Matte Red, Blue, Green, Gray or Black)																			
High-Flex 60°C 	**8281F**	—	500▸ 1000	152.4 304.8	34.5 67.0	15.7 30.4	22 AWG (7x29) .031″ BCC 12.2Ω/M′ 40.0Ω/km	.198	4.90	TC Double Braid 98% Shield Coverage 1.7Ω/M′ 5.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .9 2.5 3.6 5.1 6.0 7.4 8.7 8.9 10.5	.9 1.7 2.9 8.0 11.6 16.7 19.7 24.3 28.5 29.2 34.4
											100% Sweep tested. 5 MHz to 830 MHz.								
▸500 ft. put-up available in Black only.																			
22 AWG Stranded (7x29) .031″ Bare Compacted Copper Conductor* • Tinned Copper/Bare Copper Double Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White, Orange or Purple)																			
High-Flex SDI/HDTV Video Patch 75°C 	**1505F**	NEC: CM CEC: CM	1000	304.8	45.0	20.4	22 AWG (7x29) .031″ BCC 12.2Ω/M′ 40.0Ω/km	.145	3.68	TC Double Braid 95% Shield Coverage 2.4Ω/M′ 7.8Ω/km	.242	6.15	75	80%	17.0	55.7	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.2 .5 .9 2.5 3.5 5.1 6.0 7.4 8.7 8.9 10.5 13.3 16.9 20.3	.7 1.6 2.9 8.2 11.5 16.7 19.7 24.3 28.5 29.2 34.4 43.6 55.4 66.6
											100% Sweep tested. 5 MHz to 3 GHz.								
*Compacted conductor combines impedance uniformity of solid conductors and “nick-resistance” of stranded conductor.																			

BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

Teflon is a DuPont trademark.

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Precision Video Cable for Analog and Digital

Double Braided RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
20 AWG Solid .031″ Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)																			
Polyethylene Insulation • Gray PVC Jacket†																			
60°C VW-1	**9231**	NEC: CMH CEC: CMH FT1	500 1000	152.4 304.8	39.0 76.0	17.7 34.5	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.0 3.5 4.3 5.0 6.2 7.2 7.4 9.1	1.0 1.6 2.6 6.6 11.5 14.1 16.4 20.3 23.6 24.3 29.8
100% Sweep tested. 5 MHz to 850 MHz.																			
†Non-contaminating PVC jacket																			
Polyethylene Insulation • Clear Polyethylene Jacket																			
Indoor Use 80°C	**9141**	—	1000	304.8	73.0	33.2	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.200	5.06	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	20.0	65.6	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.0 3.5 4.3 5.0 6.2 7.2 7.4 9.1	1.0 1.6 2.6 6.6 11.5 14.1 16.4 20.3 23.6 24.3 29.8
100% Sweep tested. 5 MHz to 850 MHz.																			
20 AWG Solid .031″ Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)																			
Polyethylene Insulation • Polyethylene Jacket (Available in Red, Yellow, Green, Blue, White, Orange or Black)																			
80°C	**8281**	—	500▲ 1000	152.4 304.8	37.5 74.0	17.0 33.6	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.1 3.0 4.3 5.1 6.3 7.4 7.6 9.2	.8 1.8 2.6 6.9 9.8 14.1 16.6 20.7 24.3 24.9 30.2
For Plenum version of 8281, see 88281. 100% Sweep tested. 5 MHz to 850 MHz.																			
▲500 ft. put-up not available in White.																			
Flame-retardant Semi-Foam Polyethylene Insulation • PVC Jacket (Available in 9 colors)♦																			
UL AWM Style 1354 (30V 80°C)	**8281B**	NEC: CMR CEC: CMG FT4	1000	304.8	84.0	38.1	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.1 3.0 4.4 5.1 6.6 7.8 8.0 10.2	.8 1.8 2.6 6.9 9.8 14.4 16.6 21.5 25.4 26.2 33.5
For Plenum version of 8281B, see 88281. 100% Sweep tested. 5 MHz to 850 MHz.																			
♦8281B available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.																			
20 AWG Solid .031″ Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)																			
Plenum • FEP Insulation • Black Fluorocopolymer Jacket																			
150°C	**88281**	NEC: CMP CEC: CMP FT6	500 1000	152.4 304.8	44.5 86.0	20.2 39.1	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.185	4.70	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.271	6.88	75	70%	19.0	62.4	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.2 .5 .8 2.3 3.3 5.1 6.1 8.0 9.7 10.0 12.3	.7 1.6 2.6 7.5 10.8 16.7 20.0 26.2 31.8 32.8 40.3
100% Sweep tested. 5 MHz to 216 MHz.																			
Suitable for Outdoor and Direct Burial applications.																			

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Precision Video Cable for Analog and Digital

Low Loss Serial Digital Coax
RG-6/U and RG-11/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
RG-6/U Type • 18 AWG Solid .040″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*																			
SDI/HDTV Digital Video 75°C	**1694A**	NEC: CMR CEC: CMG FT4	500▲ 1000 4500	152.4 304.8 1371.6	20.5 45.0 202.5	9.3 20.5 91.9	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duofoil + 95% TC Braid 2.8Ω/M′ 9.2Ω/km	.274	6.96	75	82%	16.2	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.2 .5 .7 1.6 2.1 3.0 3.4 4.3 4.9 5.0 5.9 7.3 9.1 10.7	.8 1.5 2.4 5.2 6.9 9.7 11.3 13.9 16.1 16.4 19.3 24.0 30.0 35.0

For Plenum version of 1694A, see 1695A.

Also available in bundled versions. See 7710A through 7713A.

100% Sweep tested. 5 MHz to 3 GHz.

▲500 ft. put-up available in Black only.

Gas-injected Foam HDPE Insulation • Black Low-Smoke, Zero-Halogen Jacket																			
LSZH and ABS Type Approved SDI/HDTV Digital Video 75°C	**1694SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	1000	304.8	46.0	20.9	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duofoil + 95% TC Braid 2.8Ω/M′ 9.2Ω/km	.274	6.96	75	82%	16.2	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.2 .5 .7 1.6 2.1 3.0 3.4 4.3 4.9 5.0 5.9 7.3 9.1 10.7	.8 1.5 2.4 5.2 6.9 9.7 11.3 13.9 16.1 16.4 19.3 24.0 30.0 35.0

100% Sweep tested. 5 MHz to 4.5 GHz.

Plenum • Foam FEP Teflon® Insulation • Flamarrest® Jacket (Available in 10 colors)**																			
SDI/HDTV Digital Video 75°C	**1695A**	NEC: CMP CEC: CMP FT6	500◆ 1000	152.4 304.8	20.5 45.0	9.3 20.5	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.170	4.32	Duofoil + 95% TC Braid 2.8Ω/M′ 9.2Ω/km	.234	5.94	75	82%	16.2	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.2 .5 .8 1.8 2.4 3.4 4.0 5.2 6.1 6.2 7.3 9.2 11.6 13.7	.8 1.5 2.5 5.8 7.9 11.2 13.1 17.1 20.0 20.3 23.9 30.2 38.0 44.9

100% Sweep tested. 5 MHz to 3 GHz.

Black jacket suitable for Indoor, Outdoor and Aerial applications.
◆500 ft. put-up available in Black or Natural only.

RG-11/U Type • 14 AWG Solid .064″ Bare Copper Conductor • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*																			
SDI/HDTV Digital Video 75°C	**7731A**	NEC: CMR CEC: CMG FT4	500◗ 1000 4000	152.4 304.8 1219.2	46.5 95.0 388.0	21.1 43.1 176.0	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.280	7.11	Duofoil + 95% TC Braid 1.5Ω/M′ 4.9Ω/km	.400	10.2	75	85%	16.0	52.4	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.2 .3 .5 1.1 1.5 2.1 2.5 3.1 3.6 3.7 4.3 5.5 6.9 8.2	.5 1.0 1.5 3.6 4.8 6.9 8.0 10.0 11.7 12.0 14.1 18.0 22.6 26.9

100% Sweep tested. 5 MHz to 3 GHz.

◗500 ft. put-up available in Red or Black only.

Plenum • Foam FEP Teflon Insulation • Fluorocopolymer Jacket (Available in 10 colors)**																			
SDI/HDTV Digital Video 150°C	**7732A**	NEC: CMP CEC: CMP FT6	500◆ 1000 2000▼	152.4 304.8 609.6	45.0 90.0 176.0	20.5 40.8 80.0	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.274	6.96	Duofoil + 95% TC Braid 1.6Ω/M′ 5.3Ω/km	.348	8.84	75	83%	16.3	53.5	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	.2 .3 .4 1.2 1.8 2.6 3.1 3.9 4.6 4.7 5.5 6.9 9.2 10.2	.5 .9 1.3 4.1 5.8 8.5 10.2 12.8 15.0 15.4 18.0 22.7 30.2 33.5

100% Sweep tested. 5 MHz to 3 GHz.

◆500 ft. put-up available in Black or Natural only.
▼2000 ft. put-up available in Natural only.
Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Teflon is a DuPont trademark.

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG-U cables not listed.

* Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or White.
** Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or Natural.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

VideoFLEX® Snake Cable for Precision Digital and Analog

Bundled Miniature and RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Miniature • 23 AWG Solid .023″ Bare Copper Conductors • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																				
Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)																				
SDI/HDTV Digital Video 75°C / 60°C (UL) **(1855A Bundled)** 	**7787A**	NEC: CMR CEC: CMG FT4	3	500 1000	152.4 304.8	47.5 94.0	21.6 42.7	23 AWG (solid) .023″ BC 20.1Ω/M′ 65.9Ω/km	.102 Coax OD: .159	2.55 4.03	Duofoil + 95% TC Braid 7.6Ω/M′ 24.9Ω/km	.432	10.97	75	83%	16.5	54.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2500 3000	.4 .8 1.2 3.1 3.8 5.4 6.2 7.7 9.1 9.5 10.5 13.0 16.9 18.5	1.3 2.6 3.9 10.0 12.5 17.7 20.3 25.3 29.8 31.2 34.4 42.6 55.4 60.7
	7788A	NEC: CMR CEC: CMG FT4	4	1000	304.8	110.0	49.9	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.481	12.22							
	7789A	NEC: CMR CEC: CMG FT4	5	500 1000	152.4 304.8	73.0 142.0	33.1 64.4	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.539	13.69							
	7790A	NEC: CMR CEC: CMG FT4	6	500 1000	152.4 304.8	88.5 176.0	40.2 79.8	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.597	15.16							
	7791A	NEC: CMR CEC: CMG FT4	10	500 1000	152.4 304.8	155.5 304.0	70.5 137.9	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.796	20.22							
	7792A	NEC: CMR CEC: CMG FT4	12	500 1000	152.4 304.8	178.5 367.0	81.0 166.5	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.825	20.96							

Sweep tested 5 MHz to 3 GHz.

RG-59/U Type • 20 AWG Solid .032″ Bare Copper Conductors • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)

SDI/HDTV Digital Video 75°C / 60°C (UL) **(1505A Bundled)** 	**7794A**	NEC: CMR CEC: CMG FT4	3	500 1000	152.4 304.8	94.5 187.0	43.0 84.8	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145 Coax OD: .235	3.68 5.97	Duofoil + 95% TC Braid 3.8Ω/M′ 12.5Ω/km	.631	16.03	75	83%	16.2	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2500 3000	.3 .6 .9 2.1 2.7 3.8 4.4 5.5 6.4 6.5 7.6 9.4 12.4 13.8	1.0 1.8 2.9 6.9 8.9 12.5 14.4 18.0 21.0 21.3 24.9 30.8 40.7 45.3
	7795A	NEC: CMR CEC: CMG FT4	4	500 1000	152.4 304.8	116.5 237.0	53.0 107.7	same as above	.145 Coax OD: .235	3.68 5.97	same as above	.706	17.93							
	7796A	NEC: CMR CEC: CMG FT4	5	500 1000	152.4 304.8	153.0 299.0	69.4 135.6	same as above	.145 Coax OD: .235	3.68 5.97	same as above	.790	20.07							
	7798A	NEC: CMR CEC: CMG FT4	10	500 1000	152.4 304.8	319.5 625.0	145.2 284.1	same as above	.145 Coax OD: .235	3.68 5.97	same as above	1.166	29.62							

Sweep tested 5 MHz to 3 GHz.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

See Connector Reference Guide at www.belden.com for connector recommendations.

Color Code Chart

Cond.	Color	Cond.	Color	Cond.	Color
1	Red	5	Yellow	9	Purple
2	Green	6	Brown	10	Black
3	Blue	7	Orange	11	Pink
4	White	8	Gray	12	Tan

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VideoFLEX® Snake Cable for Precision Digital and Analog

RG-59/U and RG-6/U Types

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
RG-59/U • 20 AWG Solid .032″ Bare Copper Conductors • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																				
Plenum • Foam FEP Insulation • Plenum-Grade PVC Jackets (Color Code: See chart below) **• Center Spline • No Overall Jacket**																				
300V RMS	**1283S3** new	NEC: CMP CEC: CMP	3	250 500 1000	76.2 152.4 304.8	26.3 54.0 103.0	11.9 24.5 46.7	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.133	3.38	Duofoil (95%) + TC Braid 3.8Ω/M′ 12.5Ω/km	.422	10.72	75	83%	16.2	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2500 3000	.3 .6 .9 2.1 2.7 3.8 4.4 5.5 6.4 6.5 7.6 9.4 12.4 13.8	1.0 2.0 2.9 6.9 8.9 12.5 14.4 18.0 21.0 21.3 24.9 30.8 40.7 45.3
	1283S5 new	NEC: CMP CEC: CMP	5	250 500 1000	76.2 152.4 304.8	43.5 88.0 174.0	19.7 39.9 78.9	same as above	.133	3.38	same as above	.529	13.44	Sweep tested. 5 MHz to 3 GHz.						
	1283S6 new	NEC: CMP CEC: CMP	6	250 500 1000	76.6 152.4 304.8	59.0 108.0 209.0	26.8 49.0 94.8	same as above	.133	3.38	same as above	.588	14.94							
RG-6/U Type • 18 AWG Solid .040″ Bare Copper Conductors • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																				
Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)																				
SDI/HDTV Digital Video 75°C / 60°C (UL) **(1694A Bundled)**	**7710A**	NEC: CMR CEC: CMG FT4	3	500 1000	152.4 304.8	137.5 285.0	62.4 129.3	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180 Coax OD: .275	4.57 6.99	Duofoil + 95% TC Braid 3.0Ω/M′ 9.9Ω/km	.770	19.56	75	82%	16.2	53.1	1 3.58 5 7 10 67.5 71.5 88.5 100 135 143 180 270 360 540 720 750 1000 1500 2000 2250 3000	.24 .45 .54 .63 .72 1.57 1.60 1.75 1.84 2.10 2.16 2.42 2.97 3.43 4.25 4.95 5.00 5.89 7.33 8.57 9.14 10.67	.8 1.5 1.8 2.1 2.4 5.2 5.3 5.7 6.0 6.9 7.1 7.9 9.8 11.3 13.9 16.2 16.4 19.3 24.1 28.1 30.0 35.0
	7711A	NEC: CMR CEC: CMG FT4	4	500 1000	152.4 304.8	179.5 350.0	81.4 158.8	same as above	.180 Coax OD: .275	4.57 6.99	same as above	.900	22.86	Sweep tested 5 MHz to 3 GHz.						
	7712A	NEC: CMR CEC: CMG FT4	5	500 1000	152.4 304.8	216.5 454.0	98.2 205.9	same as above	.180 Coax OD: .275	4.57 6.99	same as above	.970	24.64							
	7713A	NEC: CMR CEC: CMG FT4	10	500 1000	152.4 304.8	463.0 904.0	210.0 410.0	same as above	.180 Coax OD: .275	4.57 6.99	same as above	1.386	35.20							

Suitable for Indoor and Outdoor applications.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.
See Connector Reference Guide at www.belden.com for connector recommendations.

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	6	Brown
2	Green	7	Orange
3	Blue	8	Gray
4	White	9	Purple
5	Yellow	10	Black

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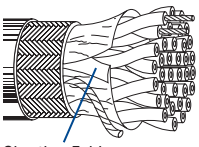
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Precision Video Cable for Analog and Digital

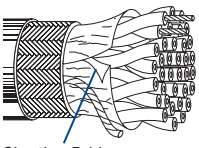
Parallel Digital Video

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
28 AWG Stranded (7x36) TC Conductors • Twisted Pairs • Overall Beldfoil® + TC Braid Shield (65% Coverage) • TC Drain Wire†																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)	**8142**	NEC: CL2	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.8 33.0 66.0	3.1 15.0 30.0	65.0Ω/M′ 213.0Ω/km	3.1Ω/M′ 10.1Ω/km	.375	9.52	120	78%	11.0	36.1	20.0	65.6
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil + TC Braid Shield (65% Coverage) • TC Drain Wire††																		
Datalene Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)	**8112**	NEC: CM NEC: CM	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.2 51.0 101.0	4.2 23.1 45.8	24.0Ω/M′ 78.7Ω/km	2.4Ω/M′ 7.9Ω/km	.440	11.18	100	78%	12.5	41	22	72.2



Shorting Fold



Shorting Fold

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

†Drain wire is 28 AWG stranded tinned copper
††Drain wire is 24 AWG stranded tinned copper

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Precision Video Cable for Analog and Digital

Digital Video Time Code and
Precision Video Twinax

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
110 Ohm • 26 AWG Stranded (7x34) .018″ TC Conductors • Twisted Pair • Beldfoil® Shield (100% Coverage) • 26 AWG Stranded TC Drain Wire																			
Datalene® Insulation (Color Code: Black, White) • **PVC Jacket** (Chrome or Purple)																			
75°C	**9180**	NEC: CMR CEC: CMG FT4	1000	304.8	10.0	4.5	26 AWG (7x34) .018″ TC 37.3Ω/M′ 122.3Ω/km	.049	1.24	Beldfoil w/Stranded TC Drain Wire 23.1Ω/M′ 75.8Ω/km	.144	3.66	110	76%	13.0	42.7	.38 .77 1.0 1.5 2.0 3.1 4.1 5.6 8.2 11.3 12.3 24.6	.8 1.2 1.3 1.5 1.7 1.9 2.1 2.4 2.8 3.1 3.2 4.2	2.6 4.0 4.3 5.0 5.6 6.3 7.0 8.0 9.3 10.3 10.6 14.0
Shorting Fold																			
Twinax • 124 Ohm • 16 AWG Solid .051″ BC Conductors • Duofoil® (100% Coverage) + TC Braid Shield (90% Coverage)																			
Foam Polyethylene Insulation (Color Code: Clear, Blue) • **Black PVC Jacket**																			
UL AWM Style 2448 (30V 60°C)	**9860**	NEC: CMX CEC: CMX	500 1000 2000	152.4 304.8 609.6	52.0 103.0 202.0	23.6 46.8 91.8	16 AWG (solid) .051″ BC 4.2Ω/M′ 13.8Ω/km	.322	8.18	Duofoil + 90% TC Braid 1.3Ω/M′ 4.3Ω/km	.440	11.18	124	78%	10.9	35.8	1 10 50 100 200 400	.2 .7 1.8 2.9 4.1 6.2	.6 2.3 5.9 9.5 13.5 20.3

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

Maximum Transmission Distance at Serial Digital Data Rates

Data Rate:	143 Mb/s		177 Mb/s		270 Mb/s		360 Mb/s		540 Mb/s		1.5 Gb/s	
Spec:	SMPTE 259M		ITU-R BT. 601		SMPTE 259M		SMPTE 259M		SMPTE 344M*		SMPTE 292M	
Application:	Composite NTSC		Composite PAL		Component Video		Component Widescreen		Component Widescreen		HDTV	
Part No.	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m
1865A	810	247	760	232	600	183	520	158	420	128	170	52
8279	910	277	810	247	640	195	550	168	440	134	170	52
1855A–7787A	1000	305	910	277	750	229	650	198	530	162	210	64
9209	1030	314	930	283	750	229	650	198	540	165	200	61
9209A	1030	314	930	283	750	229	650	198	540	165	200	61
1505A–7794A	1430	436	1320	402	1110	338	960	293	790	241	300	91
1505F	1200	366	1071	326	857	261	732	223	588	179	225	69
1506A	1360	415	1200	366	940	286	810	247	670	204	270	82
9231	1430	436	1270	387	1000	305	850	259	680	207	260	79
9141	1430	436	1270	387	1000	305	850	259	680	207	260	79
8281	1430	436	1270	387	1000	305	860	262	700	213	260	79
8281B	1430	436	1270	387	1000	305	850	259	680	207	250	76
8281F	1250	381	1100	335	860	262	730	222	590	180	240	73
88281	1300	396	1150	351	910	277	770	235	600	183	200	61
1694A–7710A	1760	536	1620	494	1360	415	1180	360	970	296	370	113
1695A	1670	509	1520	463	1250	381	1080	329	880	268	310	94
7855A	2220	677	2000	610	1670	509	1460	445	1210	369	470	143
7731A	2730	832	2460	750	2000	610	1740	530	1430	436	540	165
7732A	2420	738	2140	652	1690	515	1440	439	1150	351	430	131

*Values proposed at time of printing.

The serial digital interconnect standards are designed to operate where the signal loss at 1/2 the clock frequency does not exceed the approximate loss values listed below.
The maximum length values shown are based on typical attenuation values for the cables listed and the following criteria:

Maximum length = 30 dB loss at 1/2 the clock frequency: SMPTE 259M, PAL, Widescreen.
Maximum length = 20 dB loss at 1/2 the clock frequency: SMPTE 292M.

The bit error rate (BER) can vary dramatically as the calculated distances are approached. BER is dependent on receiver design and the losses of the actual coax used.
Distribution and routing equipment manufacturers should be contacted to verify their maximum recommended transmission.

Return Loss Headroom — Refer to graph on page 19.78.

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Video Triax Cable

RG-59/U Type

BRILLIANCE®

Triaxial cable is used to interconnect video cameras to related equipment. Triax cables contain 2 isolated shields and a solid or stranded center conductor. Isolated shields allow the triax to provide multiple functions over 1 cable through multiplexing techniques. Examples include: DC power to camera, intercom to operator, teleprompter feeds, monitoring feeds and even automatic or robotic functions.

Triax is usually either RG-59/U or RG-11/U. The second shield makes the OD of either type larger, so size and flexibility can be an issue. RG-11 styles have lower losses for long runs while RG-59 styles are smaller and generally more flexible. Part numbers 9267 and 9232 are designed with Hypalon® jackets for applications requiring even greater flexibility and ruggedness.

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

22 AWG Stranded (19x34) .031″ Bare Copper Conductor • Double Bare Copper Braid Shields (95% Coverage)

Foam Polyethylene Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Purple or Black.) Polyethylene Insulation between Braids

High-Flex 75°C	**1857A**	—	500	152.4	42.5	19.3	22 AWG (19x34) .031″ BC 14.0Ω/M′ 45.9Ω/km	.143	3.63	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 1.6Ω/M′ 5.3Ω/km	.360	9.14	75	79%	17.0	55.8	1	.3	1.0
			1000	304.8	86.0	39.1											3.6	.5	1.6
																	10	.8	2.6
																	71.5	2.2	7.2
																	135	3.1	10.2
																	270	4.5	14.8
																	360	5.4	17.7
																	540	6.8	22.3
																	720	8.1	26.6
																	750	8.4	27.6
																	1000	10.1	33.1
																	1500	13.3	43.6
																	2250	17.6	57.7
																	3000	21.4	70.2

100% Sweep tested. 5 MHz to 3 GHz.

Suitable for Outdoor applications: Black for permanent installations, all colors for field deployable use.

20 AWG Solid .032″ Bare Copper Conductor • Double Bare Copper Braid Shields (80% Coverage)

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids)

80°C	**8232**	—	500	152.4	31.0	14.1	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145	3.68	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 2.8Ω/M′ 9.2Ω/km	.315	8.00	75	83%	16.2	53.1	1	.3	1.0
			1000	304.8	60.0	27.3											3.6	.6	2.0
			2000	609.6	118.0	53.6											10	.9	3.0
																	71.5	2.1	6.9
																	135	3.0	9.8
																	270	4.2	13.8
																	360	4.8	15.7
																	540	5.9	19.4
																	720	7.0	23.0
																	750	7.1	23.3
																	1000	8.3	27.2
																	1500	10.5	34.4
																	2250	13.4	44.0
																	3000	15.9	52.2

For Plenum version of 8232, see 88232.

100% Sweep tested. 5 MHz to 3 GHz.

Suitable for Outdoor and Direct Burial applications.
Suitable for Aerial applications when supported by a messenger wire.

Gas-injected Foam HDPE Insulation • Black PVC Jacket (PVC Insulation between Braids)

75°C 60°C (UL)	**8232A**	NEC: CMR CEC: CMG FT4	1000	304.8	68.0	30.8	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145	3.68	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 2.8Ω/M′ 9.2Ω/km	.315	8.00	75	83%	16.2	53.1	1	.3	1.0
																	3.6	.6	2.0
																	10	.9	3.0
																	71.5	2.1	6.9
																	135	3.0	9.8
																	270	4.2	13.8
																	360	4.8	15.7
																	540	5.9	19.4
																	720	7.0	23.0
																	750	7.1	23.3
																	1000	8.3	27.2
																	1500	10.5	34.4
																	2250	13.4	44.0
																	3000	15.9	52.2

For Plenum version of 8232A, see 88232.

100% Sweep tested. 5 MHz to 3 GHz.

Plenum • Foam FEP Insulation • Black FEP Jacket (FEP Insulation between Braids)

200°C	**88232**	NEC: CMP CEC: CMP	500†	152.4	29.0	13.2	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.140	3.56	(2) BC Braids 95% Coverage Inner: 2.6Ω/M′ 8.5Ω/km Outer: 2.6Ω/M′ 8.5Ω/km	.245	6.22	75	80%	16.9	55.4	1	.4	1.3
			1000†	304.8	61.0	27.7											3.6	.6	2.0
																	10	.8	2.6
																	71.5	2.2	7.2
																	135	3.1	10.2
																	270	4.5	14.8
																	360	5.3	17.4
																	540	6.6	21.6
																	720	7.7	25.3
																	750	7.9	25.9
																	1000	9.4	30.8
																	1500	12.1	39.7
																	2250	15.6	51.2
																	3000	18.7	61.3

100% Sweep tested. 5 MHz to 3 GHz.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.

Hypalon is a DuPont trademark.

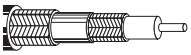
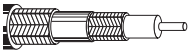
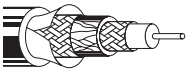
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Video Triax Cable

RG-59/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
20 AWG Solid .032″ Bare Copper Conductor • Double Bare Copper Braid Shields (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Belflex® Jacket (Red, Yellow, Green, Blue or Black) Polyethylene Insulation between Braids																			
75°C	**1856A**	—	1000	304.8	83.0	37.7	20 AWG (solid) .032″ BC 10.1Ω/M′ 33.1Ω/km	.145	3.68	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 1.6Ω/M′ 5.3Ω/km	.360	9.14	75	83%	16.2	53.1	1	.3	1.0
																	3.6	.6	1.8
																	10	.8	2.7
																	71.5	2.2	7.2
																	135	3.0	9.8
																	270	4.2	13.8
																	360	4.8	15.7
																	540	5.9	19.4
																	720	6.9	22.6
																	750	7.1	23.3
																	1000	8.8	28.9
																	1500	12.0	39.4
																	2250	16.4	53.8
Suitable for Outdoor applications: Black for permanent installations, all colors for field deployable use.											100% Sweep tested. 5 MHz to 3 GHz.						3000	20.4	66.9
Gas-injected Foam HDPE Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Purple or Black) PVC Insulation between Braids																			
75°C 60°C (UL)	**1856B**	NEC: CMR CEC: CMG FT4	1000	304.8	86.0	39.1	20 AWG (solid) .032″ BC 10.1Ω/M′ 33.1Ω/km	.145	3.68	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.2Ω/km Outer: 1.6Ω/M′ 5.2Ω/km	.360	9.14	75	83%	16.2	53.1	1	.3	1.0
																	3.6	.6	1.8
																	10	.8	2.7
																	71.5	2.2	7.2
																	135	3.0	9.8
																	270	4.2	13.8
																	360	4.8	15.7
																	540	5.9	19.4
																	720	6.9	22.6
																	750	7.1	23.3
																	1000	8.8	28.9
																	1500	12.0	39.4
																	2250	16.4	53.8
											100% Sweep tested. 5 MHz to 3 GHz.						3000	20.4	66.9
Gas-injected Foam HDPE Insulation • Paper Tape Separator • Black Hypalon® Jacket (Polyethylene Insulation between Braids)																			
80°C	**9267**	—	500	152.4	39.5	18.0	20 AWG (solid) .032″ BC 10.1Ω/M′ 33.1Ω/km	.145	3.68	(2) BC Braids 95% Coverage Inner: 2.5Ω/M′ 8.3Ω/km Outer: 2.6Ω/M′ 8.6Ω/km	.360	9.14	75	82%	16.3	53.5	1	.3	1.0
VW-1			1000	304.8	77.0	35.0											3.6	.6	2.0
																	10	.9	3.0
																	71.5	2.1	6.9
																	135	2.9	9.5
																	270	4.2	13.8
																	360	4.8	15.7
																	540	6.0	19.7
																	720	6.7	22.0
																	750	6.9	22.6
																	1000	8.3	27.2
																	1500	10.5	34.4
																	2250	13.4	44.0
Suitable for Outdoor and Direct Burial applications.											100% Sweep tested. 5 MHz to 3 GHz.						3000	15.9	52.2

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Hypalon is a DuPont trademark.

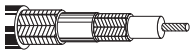
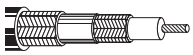
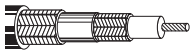
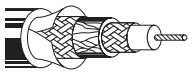
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Video Triax Cable

RG-11/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
15 AWG Stranded (19x27) .064″ Bare Copper Conductor • Double Bare Copper Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Purple or Black) Polyethylene Insulation between Braids																			
High-Flex 75°C	**1858A**	—	500 1000	152.4 304.8	80.5 157.0	36.5 71.2	15 AWG (19x27) .064″ BC 3.1Ω/M′ 8.9Ω/km	.312	7.92	(2) BC Braids 95% Coverage Inner: 1.8Ω/M′ 5.2Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.520	13.20	75	78%	17.3	56.8	1 3.6 10 71.5 135 270 360 540 720 750 1000	.1 .3 .5 1.2 1.8 2.6 3.1 3.9 4.7 4.8 5.7	.5 1.0 1.6 3.9 5.9 8.5 10.2 12.8 15.4 15.7 18.7
											100% Sweep tested. 5 MHz to 850 MHz.								
Suitable for Outdoor applications: Black for permanent installations, all colors for field deployable use.																			
Plenum • Foam FEP Teflon® Insulation • Black Fluorocopolymer Jacket (Fluorocopolymer Insulation between Braids)																			
125°C	**1859A**	NEC: CMP CEC: CMP FT6	500 1000	152.4 304.8	66.5 134.0	30.2 60.9	15 AWG (19x27) .064″ BC 3.1Ω/M′ 8.9Ω/km	.285	7.24	(2) BC Braids 95% Coverage Inner: 1.4Ω/M′ 4.6Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.406	10.30	75	80%	16.5	54.1	1 3.6 10 71.5 135 270 360 540 720 750 1000	.1 .2 .5 1.3 1.9 3.0 3.6 4.5 5.4 5.6 6.6	.5 .7 1.6 4.3 6.2 9.8 11.8 14.8 17.7 18.4 21.6
											100% Sweep tested. 5 MHz to 850 MHz.								
Suitable for Outdoor and Direct Burial applications. Suitable for Aerial applications when supported by a messenger wire.																			
15 AWG Stranded (19x27) .064″ Bare Copper Conductor • Double Bare Copper Braid Shield (90% Coverage)																			
Gas-injected Foam HDPE Insulation • Yellow PVC Jacket (Polyethylene Insulation between Braids)																			
UL AWM Style 1641 (30V 75°C) VW-1	**9192**	NEC: CL2X	1000	304.8	150.0	68.2	15 AWG (19x27) .064″ BC 3.1Ω/M′ 8.9Ω/km	.312	7.92	(2) BC Braids 90% Coverage Inner: 1.6Ω/M′ 5.2Ω/km Outer: 1.6Ω/M′ 5.2Ω/km	.520	13.20	75	78%	17.3	56.8	1 3.6 10 71.5 135 270 360 540 720 750 1000	.1 .3 .5 1.2 1.8 2.6 3.1 3.9 4.7 4.8 5.7	.5 1.0 1.6 3.9 5.9 8.5 10.2 12.8 15.4 15.7 18.7
											100% Sweep tested. 5 MHz to 850 MHz.								
Suitable for Outdoor applications: Black for permanent installations, all colors for field deployable use.																			
Gas-injected Foam HDPE Insulation • Paper Tape Separator • Black Hypalon® Jacket (Polyethylene Insulation between Braids)																			
UL AWM Style 1641 (30V 75°C) VW-1	**9232**	—	500 1000	152.4 304.8	76.5 145.0	34.7 65.9	15 AWG (19x27) .064″ BC 3.1Ω/M′ 8.9Ω/km	.312	7.92	(2) BC Braids 90% Coverage Inner: 1.6Ω/M′ 5.2Ω/km Outer: 1.6Ω/M′ 5.2Ω/km	.520	13.20	75	78%	17.3	56.8	1 3.6 10 71.5 135 270 360 540 720 750 1000	.1 .3 .5 1.2 1.8 2.6 3.1 3.9 4.7 4.8 5.7	.5 1.0 1.6 3.9 5.9 8.5 10.2 12.8 15.4 15.7 18.7
											100% Sweep tested. 5 MHz to 850 MHz.								
Suitable for Outdoor and Direct Burial applications.																			

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Hypalon is a DuPont trademark.

Teflon is a DuPont trademark.

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Video Triax Cable

RG-11/U Type

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
14 AWG Solid .064″ Bare Copper Conductor • Double Bare Copper Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids)																			
80°C	**8233**	—	500	152.4	63.0	28.6	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.285	7.24	(2) BC Braids 95% Coverage Inner: 1.6Ω/M′ 5.2Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.475	12.07	75	84%	16.1	52.8	1	.2	.7
			1000	304.8	122.0	55.5											3.6	.3	1.0
			2000	609.6	240.0	109.1											10	.4	1.3
																	71.5	1.1	3.6
																	135	1.5	4.9
																	270	2.3	7.5
																	360	2.7	8.9
											100% Sweep tested. 5 MHz to 3 GHz.						540	3.5	11.5
																	720	4.2	13.8
																	750	4.3	14.1
																	1000	5.2	17.1
																	1500	7.1	23.3
																	2250	9.6	31.5
Suitable for Outdoor and Direct Burial applications.																	3000	12.0	39.4
Gas-injected Foam HDPE Insulation • Black PVC Jacket (PVC Insulation between Braids)																			
75°C	**8233A**	NEC:	1000	304.8	136.0	61.7	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.285	7.24	(2) BC Braids 95% Coverage Inner: 1.6Ω/M′ 5.2Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.475	12.07	75	84%	16.1	52.8	1	.2	.7
60°C (UL)		CMR	2000	609.6	266.0	120.7											3.6	.3	1.0
		CEC:	4000	1219.2	572.0	259.5											10	.4	1.3
		CMG															71.5	1.1	3.6
																	135	1.5	4.9
																	270	2.3	7.5
																	360	2.7	8.9
											100% Sweep tested. 5 MHz to 3 GHz.						540	3.5	11.5
																	720	4.2	13.8
																	750	4.3	14.1
																	1000	5.2	17.1
																	1500	7.1	23.3
																	2250	9.6	31.5
																	3000	12.0	39.4
Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (PE Insulation between Braids; Flooding Compound on Outer Braid)																			
Flooded	**7803A**	—	500	152.4	64.0	29.1	14 AWG (solid) .064″ BC 2.5Ω/M′ 8.2Ω/km	.285	7.24	(2) BC Braids 95% Coverage Inner: 1.6Ω/M′ 5.2Ω/km Outer: 1.4Ω/M′ 4.6Ω/km	.475	12.07	75	84%	16.1	52.8	1	.2	.7
80°C			1000	304.8	123.0	55.9											3.6	.3	1.0
			3000	914.4	381.0	173.2											10	.4	1.3
																	71.5	1.1	3.6
																	135	1.5	4.9
																	270	2.3	7.5
																	360	2.7	8.9
											100% Sweep tested. 5 MHz to 3 GHz.						540	3.5	11.5
																	720	4.2	13.8
																	750	4.3	14.1
																	1000	5.2	17.1
																	1500	7.1	23.3
																	2250	9.6	31.5
Suitable for Outdoor and Direct Burial applications.																	3000	12.0	39.4

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • PE = Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

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Audio and Video Composite Camera Cable

Overview

BRILLIANCE®

Audio and Video Composite Camera Cables

Audio/video composite cables are used in camera cable applications requiring one or more coaxes for video and one or more shielded pairs for audio and power.

Applications for such cables include interconnect of remote field cameras for Electronic News Gathering (ENG), Electronic Field Production (EFP) and Closed Circuit Television (CCTV).

ENG cameras are used in shooting on-site News reports which may be live or recorded. EFP applications involve on-site recording of videos produced for companies or private enterprises (i.e., advertisement or training films).

The three most common audio/video configurations are one coax-one pair, one coax-three pair and two coax-three pair designs.

One Coax-One Pair

The most common use for cable of this design is the interconnection of cameras requiring one coax for the video connection to the camera and one pair for audio.

The audio pair may be connected either to the camera itself, to an audio junction box or directly into a microphone.

Another common application for this design is the connection of CCTV surveillance cameras where the coax is used for the video connection and the twisted pair to power the camera.

One Coax-Three Pair

This cable is used in camera applications requiring a coaxial video feed, one audio pair for a MIC hook-up, and two audio pairs for the Interrupted Feedback (IFB) connections to the camera person and talent (anchor). IFB is the audio feed(s) to the talent and camera person's headset which enables them to listen and receive information and directions from the news director as they make the recording.

Two Coax-Three Pair

Camera applications utilizing this design again utilize one coax for the camera video connection and three audio pairs for the MIC and IFB hook-ups. The additional coax can be used to provide video to a portable TV monitor so the talent can view him or herself as the report is being recorded.

HDTV Fiber/Copper Composite Cable

Designed specifically for high-definition cameras, these composite cables can multiplex audio and video signals and power. The cables meet all the requirements of the SMPTE 311 standard developed by the Society of Motion Picture and Television Engineers (SMPTE). They are also compatible with industry standard SMPTE 304M connectors.

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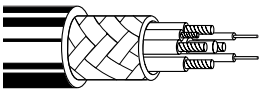
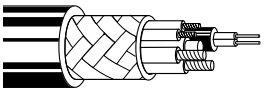
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Audio and Video Composite Camera Cable

SMPTE 311M HDTV Cables

Single-mode Fiber with Copper Conductors

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nominal Optical Attenuation (@1310nm)	
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm	dB/1000 Ft.	dB/km
4 Power Conductors • SM Fiber w/24 and 20 AWG Stranded (7x32 and 19x32) TC Conductors • TC Braid Shield (95% Coverage)														
PVC Insulation • Black Belflex® Jacket														
	**7804R**	NEC:	328	100.0	33.1	15.0	(2) Fibers: SM/125µ/900µ (core/clad/buffer)	.035	.89	36 AWG TC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.362	9.20	.14	.45
		CMR	500	152.4	47.5	21.6								
		CEC:	1000	304.8	96.0	43.5	(2) Cond.: 24 AWG (7x32) .024″ Tinned Copper 23.3Ω/M′ 76.4Ω/km	.050	1.27					
		CMG FT4	1640	500.0	152.5	69.2								
			3280	1000.0	314.9	142.8								
							(4) Cond.: 20 AWG (19x32) .037″ Tinned Copper 8.8Ω/M′ 28.9Ω/km	.063	1.60					
													Plenum version and other conductor counts/diameters available by special order.	
2 Power Conductors • SM Fiber▲ w/24 and 16 AWG Stranded (7x32 and 65x34) TC Conductors • TC Braid Shield (95% Coverage)														
PVC Insulation • Black Belflex Jacket														
	**7804C**	NEC:	328	100.0	32.8	14.9	(2) Breakout Fibers: SM/125µ/900µ (core/clad/buffer)	.079	2.00	38 AWG TC Braid 95% Shield Coverage 2.8Ω/M′ 9.2Ω/km	.362	9.20	.14	.45
		CMR	500	152.4	49.0	22.2								
		CEC:	1000	304.8	99.0	44.9	(2) Cond.: 24 AWG (7x32) .024″ Tinned Copper 23.3Ω/M′ 76.4Ω/km	.050	1.27					
		CMG FT4	1640	500.0	157.4	71.4								
			3280	1000.0	324.7	147.3								
							(2) Cond.: 16 AWG (65x34) .059″ Tinned Copper 4.3Ω/M′ 14.1Ω/km	.093	2.36					
													Plenum version and other conductor counts/diameters available by special order.	

▲Fibers and aramid fillers contained within a .008 in (2.0mm) diameter PVC breakout jacket.

DCR = DC Resistance • SM = Single-mode • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

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Composite Camera Cable

Television Camera and CCTV Cables

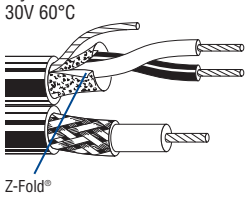
RG-59/U Type Coax with Shielded Twisted Pair(s)

BRILLIANCE®

22 AWG Stranded (7x30) Conductors • BC Coax w/BC Braid Shield (95% Coverage) • TC Twisted Pair w/Beldfoil® Shield (100% Cov.) +Drain Wire

Foam Polyethylene (Coax) **and PVC** (Pairs) **Insulation • Black PVC Jacket**

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Overall Nominal OD Inch	Overall Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
UL AWM Style 20006 30V 60°C	**9265**	NEC: CL2	500 1000	152.4 304.8	32.5 62.0	14.7 28.1	(1) Coax: 22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.146 Coax OD: .242	3.71 6.15	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.242 x .470	6.15 x 11.94	75	78%	17.3	56.8	1 5 10 50 100	.3 .7 1.0 2.1 3.0	1.0 2.3 3.3 6.9 9.8
							(2) Cond: 22 AWG (7x30) .030″ TC 15.0Ω/M′ 49.2Ω/km Black, Red	.054 Pair OD: .112	1.37 2.84	Pair: Beldfoil Shielded 100% Shield Coverage w/ 22 AWG Drain Wire 11.0Ω/M′ 36.1Ω/km			35	58%	51.0	167.3			



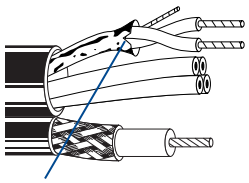
Z-Fold®

Siamese Type Construction

22 AWG Stranded (7x30) Conductors • BC Coax w/BC Braid Shield (95% Cov.) • (3) TC STP Individually Beldfoil Shielded (100% Cov.) w/Drain Wire

Foam Polyethylene (Coax) **and PVC** (Pairs) **Insulation • Black PVC Jacket**

UL AWM Style 20006 30V 60°C	**9165**	NEC: CL2X	500 1000	152.4 304.8	50.0 94.0	22.7 42.7	(1) Coax: 22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km	.146 Coax OD: .242	3.71 6.15	BC Braid 95% Shield Coverage 2.6Ω/M′ 8.5Ω/km	.290 x .561	7.37 x 14.25	75	78%	17.3	56.8	1 5 10 50 100 400	.3 .7 1.0 2.1 3.0 7.4	1.0 2.3 3.3 6.9 9.8 24.3
							(3) Pairs: 22 AWG (7x30) .030″ TC 15.0Ω/M′ 49.2Ω/km Red & Black, Orange & Brown, Green & White	.054 Pair OD: .116	1.37 2.95	Each Pair: Individually Beldfoil Shielded 100% Shield Coverage w/ 22 AWG Drain Wire 11.0Ω/M′ 36.1Ω/km			35	58%	51.0	167.3			



Z-Fold®

Siamese Type Construction

BC = Bare Copper • DCR = DC Resistance • STP = Shielded Twisted Pairs • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

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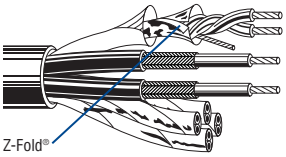
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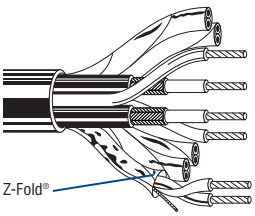
Composite Camera Cable

Audio and Video, ENG and EFP Cables
Multiple Coax with Shielded Twisted Pairs

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
12-conductor EFP and ENG Camera Cable																			
Foam Polyethylene (Coax) **and Polypropylene** (Pairs) **Insulation • Overall Chrome PVC Jacket**																			
75°C VW-1	**9170**	—	1000	304.8	113.0	51.4	(2) Coax: 25 AWG (7x33) .022″ BC 31.2Ω/M′ 102.0Ω/km Black, Black with Hash Marks	.100 Coax OD: .150	2.54 3.81	Each Coax: TC Braid 93% Shield Coverage 6.0Ω/M′ 19.7Ω/km	.490	12.45	75	78%	17.3	56.8	1 10 50 100 300 500	.4 1.5 3.8 5.6 10.6 13.8	1.3 4.9 12.5 18.4 34.8 45.3
							(5) Pairs: 24 AWG (7x32) .024″ TC 24.0Ω/M′ 78.0Ω/km Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow	.044 Pair OD: .095	1.12 2.41	Each Pair: Beldfoil® Shielded 100% Shield Coverage with 24 AWG Drain Wire 18.0Ω/M′ 59.1Ω/km				66%	27.0	88.6			
14-conductor EFP and ENG Camera Cable																			
Foam Polyethylene (Coax) **and PVC** (Pairs and Conductors) **Insulation • Overall Chrome PVC Jacket**																			
75°C	**9171**	—	500 1000	152.4 304.8	97.5 193.0	44.3 87.7	(2) Coax: 22 AWG (7x30) .030″ BC 15.0Ω/M′ 49.2Ω/km Black, Black with Hash Marks	.146 Coax OD: .242	3.71 6.15	Each Coax: BC Braid 95% Shield Coverage 2.5Ω/M′ 8.6Ω/km	.585	14.86	75	78%	17.3	56.8	1 2 10 50 100	.3 .6 1.0 2.3 3.2	1.0 2.0 3.3 7.5 10.5
							(5) Pairs: 22 AWG (7x30) .030″ TC 15.0Ω/M′ 49.2Ω/km Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow	.054 Pair OD: .110	1.37 2.79	Each Pair: Beldfoil Shielded 100% Shield Coverage with 22 AWG Drain Wire 11.6Ω/M′ 38.0Ω/km					51.0	167.3			
							(2) Cond: 16 AWG (26x30) .060″ TC 4.0Ω/M′ 13.1Ω/km Black, White	Each Cond. OD: .092	2.34										





BC = Bare Copper • DCR = DC Resistance • EFP = Electronic Field Production • ENG = Electronic News Gathering • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

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Composite Camera Cable

Television Camera and CCTV Cables

BRILLIANCE®

TPE TV Camera Cable

28-Conductor

Product Description

A 75 Ohm cable designed to remain flexible in cold weather. Recommended for transistorized TV cameras.

(4) Conductors — 18 AWG: (16x30) Tinned copper, PVC insulation, ring band stripe color coded. Beldfoil® shield wrapped around four conductors with stranded drain wire. Polyester tape over this shielded group (100% coverage).

(21) Conductors — 22 AWG: (7x30) Tinned copper, PVC insulation, cabled in three groups of seven, ring band stripe color coded. One group of seven has Beldfoil shield wrapped overall with drain wire. Polyester tape over this shielded group (100% coverage). Other two groups are unshielded.

(3) 75 Ohm Coaxial Cables — 25 AWG: (7x33) .021″ (.53mm) bare copper-covered steel. Polyethylene insulation. Core OD .121″ (3.07mm). Tinned copper braid shield (95% coverage) plus cotton braid. Coax OD .178″ (4.52mm).

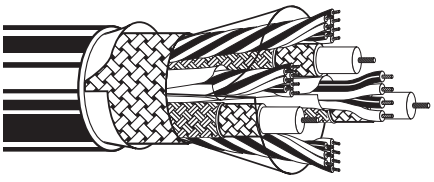
Overall: Tinned copper braid shield (85% coverage). Black thermoplastic elastomer jacket.

Specifications

Conductor	
(25) Conductors	Tinned Copper
(3) Coax	Bare Copper-covered Steel
Insulation	
Conductors	PVC
Coax	PE
Shield	
(4) 18 AWG Conductors	Beldfoil + PE Tape
(7) 22 AWG Conductors	Beldfoil + PE Tape
(14) 22 AWG Conductors	Unshielded
(3) Coax	95% TC Braid + Cotton Braid
Overall	85% Tinned Copper Braid
Jacket	Black TPE
Nominal OD	.730″ (18.54mm)
Nominal Impedance (Coax)	75Ω
Temperature Rating	80°C

Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight	
		Ft.	m	Lbs.	kg
TPE TV Camera					
28-conductor					
8286		500†	152.4	163.0	73.9
		1000†	304.8	323.0	146.5

† Spools are one piece, but length may vary -0% to +20% from length shown.



Remote Control and Video Cable

13-Conductor

Product Description

Recommended for use in installations requiring external drive signals, tallies, intercom, switching and video operations.
UL recognized component (Style 2594).
Passes VW-1 Vertical Wire Flame Test.

(12) Conductors — 20 AWG: (7x28) Tinned copper, PVC insulation, color coded.

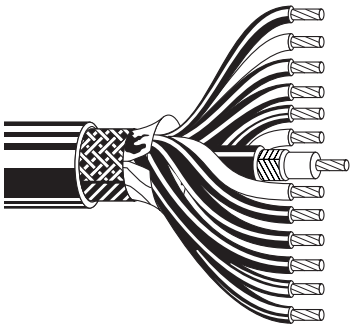
(1) 75 Ohm Coaxial — 22 AWG: (7x30) .031″ (.79mm) tinned copper. Foam polyethylene insulation. Core OD .146″ (3.71mm). Bare copper braid shield (95% coverage). Black PVC jacket. Coax OD .208″ (5.28mm).

Overall: Tinned copper braid shield (80% coverage). Gray PVC jacket.

Specifications

Conductor	
(12) Conductors	Tinned Copper
(1) Coax	Tinned Copper
Insulation	
Conductors	PVC
Coax	Foam PE
Shield	
(12) Conductors	Unshielded
(1) Coax	95% Bare Copper Braid
Overall	80% Tinned Copper Braid
Jacket	Gray PVC
Nominal OD	.406″ (11.70mm)
Nominal Impedance (Coax)	75Ω
Temperature Rating	60°C/75°C (UL)
Approvals/Rating	
UL AWM Style	2594
NEC Rating	CL2X

Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight	
		Ft.	m	Lbs.	kg
Remote Control and Video					
13-conductor					
9262	NEC	100	30.5	15.0	6.8
	CL2X	1000	304.8	160.0	72.6



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Composite Camera Cable

Television Camera and CCTV Cables

BRILLIANCE®

Audio and Video Composite Cable

3 Paired, RG-59U Type

Product Description

Recommended for Electronic News Gathering (ENG) applications.

(3) Pairs — 22 AWG: (7x30) Tinned copper, polypropylene insulation. Nominal insulated conductor OD .046″ (1.17 mm). Individually Beldfoil® shielded with drain wire. PVC jacket, OD .125″ (3.20mm). Jacket colors: Brown, Red and Orange. Nominal impedance: 50Ω. Nominal velocity of propagation: 66%. Nominal capacitance: 32 pF/ft. (105 pF/m)*, 58 pF/ft. (191 pF/m)**.

(2) 75 Ohm Coaxial Cables — 25 AWG: (7x33) .021″ (.53mm) Bare copper. Foam polyethylene insulation. Nominal Core OD .100″ (2.54mm). Duofoil® plus tinned copper braid shield (95% coverage). PVC Jacket OD .160″ (4.06mm). Jacket colors: Red and Black. Nominal Impedance: 75Ω. Nominal velocity of propagation: 78%. Nominal capacitance: 17.3 pF/ft. (56.8 pF/m). Nominal attenuation value for respective frequencies:

1 MHz	.5 db/100 ft.	1.5 db/100m
5 MHz	1.1 db/100 ft.	3.6 db/100m
10 MHz	1.5 db/100 ft.	4.9 db/100m
50 MHz	3.2 db/100 ft.	10.5 db/100m
100 MHz	4.3 db/100 ft.	14.1 db/100m
300 MHz	10.6 db/100 ft.	34.8 db/100m
500 MHz	13.8 db/100 ft.	45.3 db/100m

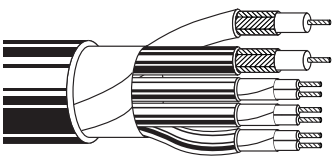
Overall: Matte Black PVC jacket.

Specifications

Conductor	
(3) Pairs	Tinned Copper
(2) Coax	Bare Copper
Insulation	
Pairs	Polypropylene
Coax	Foam Polyethylene
Shield	
(3) 22 AWG Pairs	Beldfoil
(2) Coax	Tinned Copper Braid
Jacket	Matte Black PVC
Nominal OD	.492″ (12.50mm)
Nominal Impedance (Coax)	75Ω

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight	
		Ft.	m	Lbs.	kg
Audio and Video Composite Cable					
RG-59/U Type • 3 Paired					
1263B		500	152.4	58.5	26.6
		1000	304.8	113.0	51.4



Camera Extension Cable

13-Conductor

Product Description

UL Recognized Component (Style 2497). Recommended for remote control, closed circuit and cue line applications. Style 2497 is specified for the Dage 800 and other similar cameras. Passes VW-1 Vertical Wire Flame Test.

(2) Conductors — 20 AWG: (10x30) Tinned copper, PVC insulation, color coded, twisted pair, Mylar® tape wrapped.

(9) Conductors — 22 AWG: (7x30) Tinned copper, PVC insulation. (2) conductors cabled with Beldfoil shield. (2) conductors cabled, unshielded. (5) conductors unshielded.

(2) 75 Ohm Coaxial Cables — 26 AWG: (7x34) .019″ (.48mm) bare copper-covered steel. Foam high-density polyethylene insulation. Core OD .088″ (2.24mm). Tinned copper braid shield (95% coverage). PVC jacket, color coded. Coax OD .142″ (3.61mm).

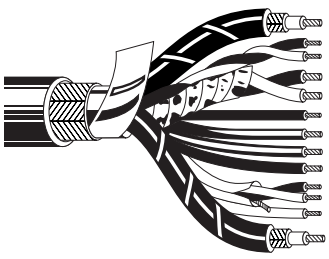
Overall: Tinned copper braid shield (85% coverage). Chrome PVC jacket.

Specifications

Conductor	
(11) Conductors	Tinned Copper
(2) Coax	Bare Copper-covered Steel
Insulation	
Conductors	PVC
Coax	Foam PE
Shield	
(7) Conductors	Unshielded
(2) Conductors	Beldfoil
(2) Conductors	Mylar Tape
(2) Coax	95% Tinned Copper Braid
Overall	85% Tinned Copper Braid
Jacket	Chrome PVC
Nominal OD	.550″ (13.97mm)
Nominal Impedance (Coax)	75Ω
Temperature Rating	60°C
Approvals/Rating	
UL AWM Style	2497
NEC Rating	CL2X

Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight	
		Ft.	m	Lbs.	kg
Camera Extension Cable					
13-conductor					
9254	NEC	250†	30.5	45.5	20.7
	CL2X	1000†	304.8	177.0	80.5

†Spools are one piece, but length may vary -0% to +20% from length shown.



Mylar is a DuPont trademark.

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RGB Component Video Cable

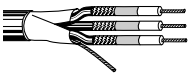
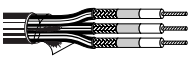
Bundled RGB Coaxial Cables
Miniature and High-Flex Type

BRILLIANCE®

RGB coaxial cables are used for sending red, green and blue signals through separate coaxes in COMPONENT video applications. This type of video transmission provides a sharper, clearer picture than does the composite video format. COMPONENT video and RGB cabling is ideal for use in graphics, animation and computer display applications.

These bundled coaxial cables are available in 3, 4, 5 and 6 conductor versions and are color coded for easy identification. Cable selection depends on whether the component transmission is RGB (3 conductor), RGB and Sync (4 conductor), or RGB, Sync and Hold (5 conductor). 6 conductor designs are used for digital audio (AES 3id) and SPDIF (Sony-Phillips Digital Interface) applications, and for specialized component video, multi-channel video, or combination applications.

All Belden® RGB cables are pre-timed to less than 5.0 ns/100 ft. delay difference between each coax. This allows for cut-and-connect installation with no TDR or Vectorscope timing required.

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
				Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Miniature • 30 AWG Stranded (7x38) .012″ TC Conductors • Coax: Duofoil® (100% Cov.) + TC Braid (90% Cov.) • Overall Beldfoil® Shield																				
Foam HDPE Insulation • Inner PVC Jackets (Color Code: See chart below) • **Overall Black PVC Jacket**																				
UL AWM Style 1354 (30V 60°C)	**1520A**	NEC: CL2	3	500 1000	152.4 304.8	23.0 50.0	10.4 22.7	30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km	.056 Coax OD: .102	1.42 2.59	Coaxes: Duofoil + 90% TC Braid Overall: Beldfoil 9.5Ω/M′ 31.2Ω/km	.283	7.19	75	78%	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	.8 1.5 2.2 4.0 5.4 8.2 12.5 18.9 26.5 30.8 32.8	2.6 4.9 7.2 13.1 17.7 26.9 41.0 62.0 86.9 101.0 107.6
	**1521A**	NEC: CL2	4	500 1000	152.4 304.8	31.0 60.0	14.1 27.3	same as above	.056 Coax OD: .102	1.42 2.59	same as above	.310	7.87							
	1522A	NEC: CL2	5	500 1000	152.4 304.8	34.5 67.0	15.6 30.4	same as above	.056 Coax OD: .102	1.42 2.59	same as above	.338	8.59							
High-Flex • 26 AWG Stranded (7x34) .019″ Bare Copper Conductors • Duofoil (100% Coverage) + TC Braid Shield (93% Coverage)																				
Foam HDPE Insulation • Inner PVC Jackets (Color Code: See chart below) • **Overall Matte Black PVC Jacket**																				
60°C	**1406B**	—	3	1000†	304.8	79.0	35.8	26 AWG (7x34) .019″ BC 41.5Ω/M′ 136.0Ω/km	.089 Coax OD: .146	2.29 3.71	Duofoil + 93% TC Braid 8.6Ω/M′ 28.2Ω/km	.388	9.86	75	78%	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	.6 1.3 1.8 3.1 3.9 5.4 7.5 10.4 13.5 15.2 15.9	2.0 4.3 5.9 10.2 12.8 17.7 24.6 34.1 44.3 49.9 52.2
	**1407B**	—	4	1000†	304.8	100.0	45.5	same as above	.089 Coax OD: .146	2.29 3.71	same as above	.455	11.56							
	1417B	—	5	1000†	304.8	110.0	49.9	same as above	.089 Coax OD: .146	2.29 3.71	same as above	.477	12.12							

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.

Color Code Chart

Cond.	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow

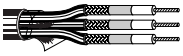
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

RGB Component Video Cable

Bundled RGB Coaxial Cables
CM Rated

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
26 AWG Stranded (7x34) .019″ BC Conductors • Duofoil® (100% Coverage) + TC Braid Shield (93% Coverage) • Overall Polyester Tape																				
Foam HDPE Insulation • Inner PVC Jackets (Color Code: See chart below) • **Overall Black PVC Jacket**																				
UL AWM Styles 1354 and 2668 (30V 60°C) 	**1164B**	NEC: CM	3	500† 1000†	152.4 304.8	38.0 78.0	17.2 35.5	26 AWG (7x34) .019″ BC 41.5Ω/M′ 136.1Ω/km	.089 Coax OD: .146	2.29 3.71	Duofoil + 93% TC Braid 8.6Ω/M′ 28.2Ω/km	.388	9.86	75	78%	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	.6 1.3 1.8 3.1 3.9 5.4 7.5 10.4 13.5 15.2 15.9	2.0 4.3 5.9 10.2 12.8 17.7 24.6 34.1 44.3 49.9 52.2
	1167B	NEC: CM	4	1000†	304.8	105.0	47.7	same as above	.089 Coax OD: .146	2.29 3.71	same as above	.455	11.56							
	1418B	NEC: CM	5	500† 1000†	152.4 304.8	61.5 119.0	27.9 54.0	same as above	.089 Coax OD: .146	2.29 3.71	same as above	.477	12.12							

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.

Color Code Chart

Cond.	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow

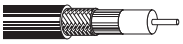
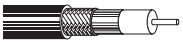
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RGB Component Video Cable

Miniature Hi-Res Component Video Cables
CMR and CMP Rated

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Miniature • 25 AWG Solid .018″ Tinned Copper Conductors • Duobond® (100% Coverage) + TC Braid Shield (95% Coverage)																				
Gas-injected Foam HDPE Insulation • Black PVC Jacket																				
	**1281R** new	NEC: CMR CEC: CMG	1	1000	304.8	8.0	3.6	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.074	1.88	Duobond (100%) + TC Braid 5.4Ω/M′ 17.7Ω/km	.114	2.90	75	80%	17.0	55.8	1 5 50 100 200 400 700 900 1000 3000	.5 1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8 31.2	1.7 3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8 102.4
Plenum • FPFA Insulation • Black Flamarrest® Jacket																				
	**1282P** new	NEC: CMP CEC: CMP FT6	1	1000	304.8	10.0	4.5	25 AWG (solid) .018″ TC 31.8Ω/M′ 104.3Ω/km	.074	1.88	Duobond (100%) + TC Braid 5.8Ω/M′ 19.0Ω/km	.114	2.90	75	81%	17.0	55.8	1 5 50 100 200 400 700 900 1000 3000	.4 .9 3.7 5.0 7.0 10.0 14.5 17.0 17.5 37.0	1.3 3.0 12.1 16.4 23.0 32.8 47.6 55.8 57.4 121.4
Miniature • 25 AWG Solid .018″ Tinned Copper Conductors • Duobond® (100% Coverage) + TC Interlocked Serve Shield (95% Coverage)																				
FPFA Insulation • PVC Inner Jackets (Color Code: See chart below) • **Overall Black Matte PVC Jacket**																				
	**1277R** new	NEC: CMR CEC: CMG	3	500 1000	152.4 304.8	25.5 48.0	11.6 21.8	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.074	1.88	Duobond (100%) + TC Serve 5.4Ω/M′ 17.7Ω/km	Single: .114 Overall: .320	2.90 8.13	75	80%	17.0	55.8	1 5 50 100 200 400 750 900 1000 3000	.5 1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8 31.2	1.7 3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8 102.4
	1278R new	NEC: CMR CEC: CMG	4	500 1000	152.4 304.8	31.5 60.0	14.3 27.3	same as above	.074	1.88	same as above	Overall: .351	8.92							
	1279R new	NEC: CMR CEC: CMG	5	250 500 1000	76.2 152.4 304.8	21.8 40.5 80.0	9.9 18.4 36.4	same as above	.074	1.88	same as above	Overall: .403	10.24							
	1280R new	NEC: CMR CEC: CMG FT4	6	500 1000	152.4 304.8	44.0 87.0	20.0 39.5	same as above	.074	1.88	same as above	Overall: .423	10.74							

Bundled version of 1281R.

100% Sweep Tested. 5 MHZ to 850 MHz. Guaranteed Return Loss –20dB Max.

Plenum • FPFA Insulation • PVDF Inner Jackets (Color Code: See chart below) • **Overall Gray PVC Jacket**																				
	**1277P** new	NEC: CMP CEC: CMP	3	500 1000	152.4 304.8	19.0 41.0	8.6 18.6	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.074	1.88	Duobond (100%) + TC Serve 5.4Ω/M′ 17.7Ω/km	Single: .111 Overall: .276	2.82 7.01	75	81%	16.8	55.1	1 5 50 100 200 400 750 1000 2250 3000	.5 1.2 3.8 5.2 7.1 10.0 14.3 16.9 25.5 33.9	1.6 3.9 12.5 17.1 23.3 32.8 46.9 55.5 83.7 111.2
	1278P new	NEC: CMP CEC: CMP	4	500 1000	152.4 304.8	27.0 52.0	12.3 23.6	same as above	.074	1.88	same as above	Overall: .304	7.72							
	1279P* new	NEC: CMP CEC: CMP	5	250 500 1000	76.2 152.4 304.8	19.0 33.5 68.0	8.6 15.2 30.8	same as above	.074	1.88	same as above	Overall: .335	8.51							
	1280P new	NEC: CMP CEC: CMP	6	500 1000	152.4 304.8	39.0 79.0	17.7 35.8	same as above	.075	1.91	same as above	Overall: .369	9.37							

Bundled version of 1282P.

100% Sweep Tested. 5 MHZ to 850 MHz. Guaranteed Return Loss –20dB Max.

DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • PVDF = Fluorocopolymer • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.
Request quotations of cables not listed.

Jacket Color Code Chart:

Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

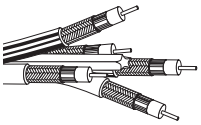
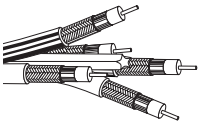
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

RGB Component Video Cable

Banana Peel® Unjacketed Bundles Mini Hi-Res Component Video
CMR and CMP Rated

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Miniature • 25 AWG Solid .018″ TC Conductors • Duobond® (100% Coverage) + TC Interlocked Serve Shield (95% Coverage)																				
Gas-injected Foam HDPE Insulation • PVC Jackets (Color Code: See chart below) • **Center Spline • No Overall Jacket**																				
	**1281S3** new	NEC: CMR CEC: CMG	3	500† 1000†	152.4 304.8	17.0 31.0	7.7 14.1	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.074	1.88	Duobond (100%) + TC Serve (95%) 5.4Ω/M′ 17.7Ω/km	Single: .114 Overall: .246	2.90 6.25	75	80%	17.0	55.8	1 5 50 100 200 400 750 900 1000 3000	.52 1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8 31.2	1.7 3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8 102.4
	1281S4 new	NEC: CMR CEC: CMG	4	500† 1000†	152.4 304.8	23.5 44.0	10.7 20.0	same as above	.074	1.88	same as above	Single: .114 Overall: .275	2.90 6.99							
	1281S5 new	NEC: CMR CEC: CMG	5*	250† 500† 1000†	76.2 152.4 304.8	16.0 28.5 55.0	7.3 12.9 25.0	same as above	.074	1.88	same as above	Single: .114 Overall: .308	2.90 7.82							
	1281S6 new	NEC: CMR CEC: CMG FT4	6*	500† 1000†	152.4 304.8	33.5 68.0	15.2 30.8	same as above	.074	1.88	same as above	Single: .114 Overall: .342	2.90 8.69							
Plenum • FPFA • Flamarrest® Jackets (Color Code: See chart below) • **Center Spline • No Overall Jacket**																				
	**1282S3** new	NEC: CMP CEC: CMP	3	500 1000	152.4 304.8	18.5 34.0	8.4 15.4	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.075	1.91	Duobond (100%) + TC Serve (95%) 5.4Ω/M′ 17.7Ω/km	Single: .114 Overall: .246	2.90 6.25	75	81%	16.8	55.1	1 5 50 100 200 400 750 1000 2250 3000	.50 1.2 3.8 5.2 7.1 10.0 14.3 16.9 25.5 33.9	1.6 3.9 12.1 17.1 23.1 32.9 47.0 55.4 83.6 111.3
	1282S4 new	NEC: CMP CEC: CMP	4	500 1000	152.4 304.8	25.5 49.0	11.6 22.2	same as above	.075	1.91	same as above	Single: .114 Overall: .275	2.90 6.99							
	1282S5 new	NEC: CMP CEC: CMP	5*	250 500 1000	76.2 152.4 304.8	18.0 33.0 67.0	8.2 15.0 30.4	same as above	.075	1.91	same as above	Single: .114 Overall: .308	2.90 7.82							
	1282S6 new	NEC: CMP CEC: CMP	6*	500 1000	152.4 304.8	39.5 80.0	17.9 36.3	same as above	.075	1.91	same as above	Single: .114 Overall: .342	2.90 8.69							

100% Sweep tested. 5 MHz to 850 MHz. Guaranteed Return Loss -20db max.

U.S. Patent 7,049,523

DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.
*Also available with all Black jackets.

Color Code Chart:

Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

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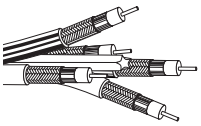
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

RGB Component Video Cable

Banana Peel® Unjacketed VideoFLEX® Bundles; RG-59/U Type Plenum Rated

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
				Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-59/U • 20 AWG Solid .032″ Bare Copper Conductors • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																				
Plenum • Foam FEP Insulation • Plenum-Grade PVC Jackets (Color Code: See chart below) • **Center Spline • No Overall Jacket**																				
300V RMS	**1283S3** new	NEC: CMP	3	250	76.2	26.3	11.9	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.133	3.38	Duofoil (95%) + TC Braid 3.8Ω/M′ 12.5Ω/km	.422	10.72	75	83%	16.2	53.1	1	.3	1.0
				500	152.4	54.0	24.5											3.6	.6	2.0
		CEC: CMP		1000	304.8	103.0	46.7											10	.9	2.9
																		71.5	2.1	6.9
																		135	2.7	8.9
																		270	3.8	12.5
																		360	4.4	14.4
																		540	5.5	18.0
																		720	6.4	21.0
	1283S5 new	NEC: CMP	5	250	76.2	43.5	19.7	same as above	.133	3.38	same as above	.529	13.44					750	6.5	21.3
				500	152.4	88.0	39.9											1000	7.6	24.9
		CEC: CMP		1000	304.8	174.0	78.9											1500	9.4	30.8
																		2500	12.4	40.7
																		3000	13.8	45.3
	1283S6 new	NEC: CMP	6	250	76.6	59.0	26.8	same as above	.133	3.38	same as above	.588	14.94							
				500	152.4	108.0	49.0													
		CEC: CMP		1000	304.8	209.0	94.8													



100% Sweep tested. 5 MHz to 3 GHz.

U.S. Patent 7,049,523

Suitable for Indoor and Outdoor applications.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Color Code Chart:

Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

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RJ-45 Cables for Audio and Video Applications

4-Pair UTP Cables for RGB Video

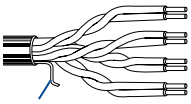
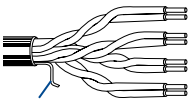
NanoSkew™ Non-Data and Brilliance VideoTwist® Low-Skew Data Rated Types

BRILLIANCE®

For economy, some system designers seek to use UTP (unshielded twisted pair) cable for video applications. However, Digital Video and Digital Data are processed and viewed differently. Digital Video contains much more information, requiring more bandwidth than Ethernet data. In addition, video has to be streaming — viewable live and continuously — whereas data can be sent in packets, resent as necessary, and given time to recompile. Such delays are unacceptable in video. Be cautious, digital signals are not all the same thing!

Delay Skew should be kept to a minimum for component video and RGB applications for better picture quality and the ability to transmit over longer distances. Delay skew is the difference in the time of arrival of the components transmitted over different cable components — pairs in the case of UTP. Skew is inherent in all cables, but especially in UTP cables because the pairs are normally twisted to differing degrees for Ethernet data purposes, specifically to reduce crosstalk. Obviously picture clarity is lost when the red, green, and blue components arrive out of time with each other, and varying twist rates cause exactly that to occur.

Cables in this section are NanoSkew, a UTP cable with no Ethernet data rating (all pairs have the same twist rate), and Brilliance VideoTwist Cat 5e and Cat 6 rated cables with lower, carefully monitored skew relative to standard data cables. Cables designed only for data applications meet their own skew requirements, but those are too high for better video transmission, and may be varied by manufacturers without notice. For guaranteed low and consistent skew performance from UTP cables, only NanoSkew or VideoTwist should be used. The Cat 5e and Cat 6 rated versions are ideal for KVM and blade-edge computer applications.

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Nom. Imped. (Ω)	Min. RL (dB)	Freq. (MHz)	Max. Atten. (dB/ 100m)
				Ft.	m	Lbs.	kg	Inch	mm					
Nanoskew™ 24 AWG Solid BC Conductors • Twisted Pairs • Skew 2.2ns/100m nom. • Rip cord • See Color Code Chart (below)														
Non-Plenum • Polyolefin Insulation • Maroon PVC Jacket														
300V RMS	**7987R** new	NEC: CMR CEC: CMG	4	U-1000 U-1640	U-304.8 U-500.0	20.0 32.8	9.1 14.9	.195	4.95	9.0	100	15.0	1 4 8 10 16 20 25 31.25 62.5 100 155 200 250* 350*	2.0 4.1 5.8 6.5 8.2 9.3 10.4 11.7 17.0 22.0 28.1 32.0 36.4 44.8
 Rip Cord														
Plenum • FEP Insulation • Maroon Flamarrest® PVC Jacket														
300V RMS	**7987P** new	NEC: CMP CEC: CMP	4	U-1000 U-1640	U-304.8 U-500.0	22.0 36.1	10.0 16.4	.200	5.08	9.0	100	15.0	(same as above)	
 Rip Cord														

Third party verified to TIA/EIA-568-B.2, Category 5e

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

*Values provided for information only.

Color Codes: DataTwist 5e

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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RJ-45 Cables for Audio and Video Applications

4-Pair UTP Cables for RGB Video & Wireless LAN
NanoSkew® Non-Data and Brilliance VideoTwist® Low-Skew Data Rated Types

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm										
Nanoskew™ Category 5e • 24 AWG Bonded-Pairs Solid Bare Copper Conductors • Skew 9.0ns/100m Nominal • Rip Cord																					
Non-Plenum • Polyolefin Insulation (Color Code: See Chart Below) • **Green PVC Jacket**																					
300V RMS	**7988R** new	NEC: CMR CEC: CMG FT4	4	U-1000 U-1640	U-304.8 U-500.0	22.0 36.1	10.0 16.4	.008	.20	.204	5.18	9.0	3.0	66.0	1	2.0	65.3	60.3	60.8	100±15	20.0
															4	4.1	53.3	49.2	48.7	100±15	23.0
															8	5.8	48.8	43.0	42.7	100±15	24.5
															10	6.5	47.3	40.8	40.8	100±15	25.0
															16	8.2	44.3	36.0	36.7	100±15	25.0
															20	9.3	42.8	33.5	34.7	100±15	25.0
															25	10.4	41.3	30.9	32.8	100±15	24.3
															31.25	11.7	39.9	28.2	30.9	100±15	23.6
															62.5	17.0	35.4	18.4	24.8	100±15	21.5
															100	22.0	32.3	10.3	20.8	100±15	20.1
															155	28.1	29.5	2.0	16.9	100±25	15.8
															200	32.4	27.8	1.0	14.7	100±25	15.0
Rip Cord																					
Plenum • FEP Insulation (Color Code: See Chart Below) • **Green Flamarrest® Jacket**																					
300V RMS	**7988P** new	NEC: CMP CEC: CMP FT6	4	U-1000 U-1640	U-304.8 U-500.0	23.0 37.7	10.4 17.1	.008	.20	.193	4.90	9.0	3.0	66.0	(same as 7988R above)						
Rip Cord																					
Nanoskew™ Category 6 • 23 AWG Bonded-Pairs Solid Bare Copper Conductors • Skew 10.0ns/100m Nominal • Rip Cord																					
Non-Plenum • Polypropylene Insulation (Color Code: See Chart Below) • **Blue PVC Jacket**																					
300V RMS	**7989R** new	NEC: CMR CEC: CMG FT4	4	1000 1640	304.8 500.0	32.0 52.5	14.5 23.8	.009	.23	.365 x .165	9.27 x 4.19	9.0	3.0	49.2	1	2.0	72.3	70.3	64.8	100±15	20.0
															4	3.8	63.3	59.5	52.7	100±15	23.0
															8	5.3	58.8	53.4	46.7	100±15	24.5
															10	6.0	57.3	51.3	44.8	100±15	25.0
															16	7.6	54.3	46.7	40.7	100±15	25.0
															20	8.5	52.8	44.3	38.7	100±15	25.0
															25	9.5	51.4	41.8	36.8	100±15	24.3
															31.25	10.7	49.9	39.2	34.9	100±15	23.6
															62.5	15.4	45.4	30.0	28.8	100±15	21.5
															100	19.8	42.3	22.5	24.8	100±15	20.1
															155	25.2	39.5	14.3	20.9	100±22	18.8
															200	29.0	37.8	8.8	18.7	100±22	18.0
															250	32.8	36.3	3.5	16.8	100±32	17.3
Rip Cord																					
Plenum • FEP Teflon® Insulation (Color Code: See Chart Below) • **Blue Flamarrest Jacket**																					
300V RMS	**7989P** new	NEC: CMP CEC: CMP FT6	4	1000 1640	304.8 500.0	41.0 62.3	18.6 28.3	.009	.23	.365 x .165	9.27 x 4.19	9.0	3.0	49.2	(same as 7989R above)						
Rip Cord																					

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • TC = Tinned Copper • UTP = Unshielded Twisted Pair(s)

Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

Color Codes

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

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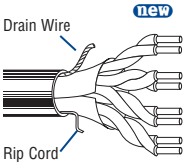
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

RJ-45 Cables for Audio and Video Applications

4-Pair ScTP Cat 5e Indoor/Outdoor for Wireless LAN and
High-Flex and Rugged Cat 5e Patch Cable

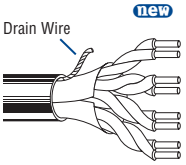
BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Insulation Thickness Inch	Insulation Thickness mm	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
Wireless LAN • 24 AWG Solid BC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • Stranded TC Drain Wire																					
Non-Plenum • Polyolefin Insulation (Color Code: See Chart Below) • **Oil- and Sun-Resistant Black PVC Jacket**																					
300V RMS	**1300A** new	NEC: CMR, CMX CEC: CMG FT4	4	500	152.4	18.5	8.4	.010	.25	.265	6.73	9.3	3.0	330	1	2.0	62.3	60.0	60.8	100±15	20.0
				1000	304.8	34.0	15.4								4	4.1	53.3	49.0	48.7	100±15	23.0
															8	5.8	48.8	43.0	42.7	100±15	24.5
															10	6.5	47.3	41.0	40.8	100±15	25.0
															16	8.2	44.3	36.0	36.7	100±15	25.0
															20	9.3	42.8	33.5	34.7	100±15	25.0
															25	10.4	41.3	30.9	32.8	100±15	24.3
															31.25	11.7	39.9	28.0	30.9	100±15	23.6
															62.5	17.0	35.4	19.0	24.8	100±15	21.5
															100	22.0	32.3	11.0	20.8	100±15	20.1



Shield bonded to jacket. Jacket sequentially marked at 2 ft. intervals.

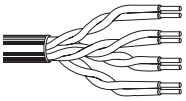
Non-Plenum • Polypropylene Insulation (Color Code: See Chart Below) • **Black Low-Smoke, Zero-Halogen Jacket**																					
300V RMS	**1300SB** new	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	4	1000	304.8	35.0	15.9	.010	.25	.260	6.60	9.3	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0
															4	4.1	53.3	49.2	48.7	100±15	23.0
															8	5.8	48.8	43.0	42.7	100±15	24.5
															10	6.5	47.3	40.8	40.8	100±15	25.0
															16	8.2	44.3	36.1	36.7	100±15	25.0
															20	9.3	42.8	33.5	34.7	100±15	25.0
															25	10.4	41.3	30.9	32.8	100±15	24.3
															31.25	11.7	39.9	28.2	30.9	100±15	23.6
															62.5	17.0	35.4	18.4	24.8	100±15	21.5
															100	22.0	32.3	10.3	20.8	100±15	20.1



LSZH and ABS Type Approved
Jacket sequentially marked at 2 ft. intervals.

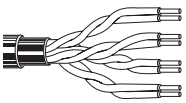
Hi-Flex Patch • 24 AWG Bonded Pairs Stranded (7x32) Bare Copper Conductors

Non-Plenum • Polyolefin Insulation (Color Code: See Chart Below) • **Black Industrial-Grade PVC Jacket**																					
300V RMS	**1304A** new		4	500	152.4	14.5	6.6	.009	.22	.245	6.22	9.0	3.0	66	1	2.4	65.3	62.9	60.8	100±12	20.0
				1000	304.8	28.0	12.7								4	4.8	56.3	51.5	48.7	100±12	23.0
															8	6.8	51.8	45.0	42.7	100±12	24.5
															10	7.7	50.3	42.6	40.8	100±12	25.0
															16	9.7	47.3	37.5	36.7	100±12	25.0
															20	11.0	45.8	34.8	34.7	100±12	25.0
															25	12.4	44.3	31.9	32.8	100±15	24.3
															31.25	13.9	42.9	29.0	30.9	100±15	23.6
															62.5	20.2	38.4	18.3	24.8	100±15	21.5
															100	26.0	35.3	9.2	20.8	100±18	20.1
															300	48.6	28.2	—	11.2	100±20	18.0
															350	53.2	27.2	—	9.9	100±22	17.0



Jacket sequentially marked at 2 ft. intervals.

Non-Plenum • Polyolefin Insulation (Color Code: See Chart Below) • **PVC Inner Jacket • Matte Black PVC Outer Jacket**																					
300V RMS	**1305A** new		4	500	152.4	23.0	10.4	.009	.22	.295	7.49	9.0	3.0	66	1	2.4	65.3	62.9	60.8	100±12	20.0
				1000	304.8	42.0	19.1								4	4.8	56.3	51.5	48.7	100±12	23.0
															8	6.8	51.8	45.0	42.7	100±12	24.5
															10	7.7	50.3	42.6	40.8	100±12	25.0
															16	9.7	47.3	37.5	36.7	100±12	25.0
															20	11.0	45.8	34.8	34.7	100±12	25.0
															25	12.4	44.3	31.9	32.8	100±15	24.3
															31.25	13.9	42.9	29.0	30.9	100±15	23.6
															62.5	20.2	38.4	18.3	24.8	100±15	21.5
															100	26.0	35.3	9.2	20.8	100±18	20.1
															300	48.6	28.2	—	11.2	100±20	18.0
															350	53.2	27.2	—	9.9	100±22	17.0



Jacket sequentially marked at 2 ft. intervals.

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • TC = Tinned Copper • UTP = Unshielded Twisted Pair(s)

Color Codes

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

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S-Video Cable

High-Flex S-Video Cables

BRILLIANCE®

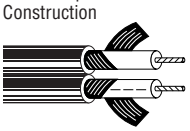
The S-video format, also known as Y/C or Super VHS (SVHS) video, requires two coaxial cables to allow for separate transmission of the two parts of a VHS video signal; the luminance (Y) and chrominance (C). The chrominance signal contains the color information and the luminance the black and white or brightness information of the video signal. This separated transmission of the VHS video signal provides better picture resolution with less noise than does the standard VHS format.

Belden's S-Video cables have been designed specifically for use in this format. Belden's S-Video cables are available in two popular constructions; a Zip style dual coax and a Round jacketed version. The Zip construction provides for quick and easy termination. The Round design provides better aesthetics and is more rugged. Both cables are highly flexible.

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

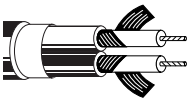
30 AWG Stranded (7x38) .012″ Tinned Copper Conductors • Tinned Copper Serve Shield (90% Coverage)

Foam HDPE Insulation • Matte Black PVC Jacket (One Coax Printed and Striped for Identification)

Parallel Zip Construction 	**1807A**	—	U-500	U-152.4	8.0	3.6	30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km	.058	1.47	TC Serve 90% Shield Coverage 7.5Ω/M′ 24.6Ω/km	.110 x .230	2.79 x 5.84	75	78%	17.3	56.7	1	.6	2.0
			500	152.4	7.5	3.4											5	1.4	4.6
			U-1000	U-304.8	15.0	6.8											10	2.1	6.9
			1000	304.8	14.0	6.4											30	3.8	12.5
																	50	5.1	16.7
																	100	7.6	24.9
																	200	11.3	37.1
																	400	16.9	55.4
																	700	23.3	76.4
																	900	26.9	88.2
																	1000	28.6	93.8

For Plenum version of 1807A, see 7700A.

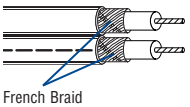
Foam HDPE Insulation • Matte Black PVC Jacket (Inner PVC Jackets Color Code: Black and Yellow)

Round Construction 	**1808A**	—	U-500	U-152.4	14.5	6.6	30 AWG (7x38) .013″ TC 100.0Ω/M′ 328.0Ω/km	.058	1.47	TC Serve 90% Shield Coverage 7.5Ω/M′ 24.6Ω/km	.255	.84	75	78%	17.3	56.7	1	.6	2.0
			500	152.4	16.5	7.5		Coax OD:									5	1.4	4.6
			U-1000	U-304.8	31.0	14.1		.100	2.54								10	2.1	6.9
			1000	304.8	33.0	15.0											30	3.8	12.5
																	50	5.1	16.7
																	100	7.6	24.9
																	200	11.3	37.1
																	400	16.9	55.4
																	700	23.3	76.4
																	900	26.9	88.2
																	1000	28.6	93.8

Available in Plenum versions by special order only.

30 AWG Stranded (7x38) .012″ Tinned Copper Conductors • Tinned Copper "French Braid" Shield (98% Coverage)

Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket (One Coax Printed and Striped for Identification)

Parallel Zip Construction  French Braid	**7700A**	NEC: CMP CEC: CMP FT6	500	152.4	8.5	3.9	30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km	.053	1.35	TC "French Braid" 98% Shield Coverage 7.5Ω/M′ 24.6Ω/km	.107 x .214	2.72 x 5.44	75	78%	17.3	56.7	1	.7	2.3
			1000	304.8	17.0	7.7											5	1.7	5.6
																	10	2.3	7.5
																	30	4.1	13.4
																	50	5.3	17.4
																	100	7.6	24.9
																	200	11.8	38.7
																	400	17.6	57.7
																	700	24.2	79.4
																	900	28.0	91.8
																	1000	29.8	97.7

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Wire & Cable Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Teflon is a DuPont trademark.

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Technical Information

BRILLIANCE®

Maximum Transmission Distance at Serial Digital Data Rates

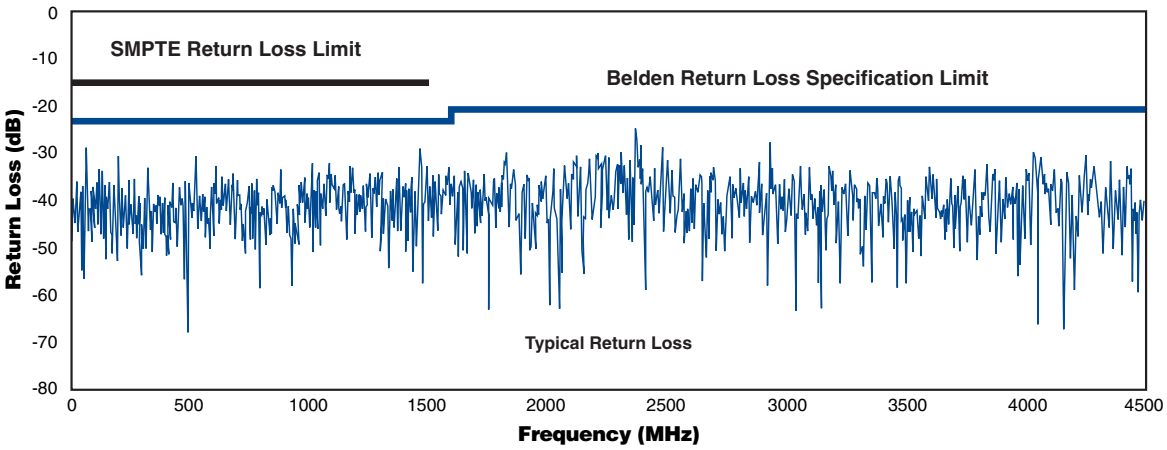
Data Rate:	143 Mb/s		177 Mb/s		270 Mb/s		360 Mb/s		540 Mb/s		1.5 Gb/s		3.0 Gb/s	
Spec:	SMPTE 259M		ITU-R BT. 601		SMPTE 259M		SMPTE 259M		SMPTE 344M		SMPTE 292M		SMPTE 292M	
Application:	Composite NTSC		Composite PAL		Component Video		Component Widescreen		Component Widescreen		HDTV		Progressive Scan HDTV	
Part No.	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m
179DT	500	152	450	137	380	116	340	104	280	85	110	34	80	24
1855A	980	299	950	290	790	241	680	207	560	171	260	79	150	46
1505A	1430	436	1360	415	1110	338	970	296	790	241	310	94	220	67
8281	1430	436	1280	390	1000	305	870	265	700	213	260	79	160	49
1694A	1880	573	1710	521	1430	436	1240	378	1010	308	400	122	270	82
7855A	2730	832	2330	710	1670	509	1480	451	1200	366	470	143	330	101
7731A	2750	838	2480	756	2040	622	1760	536	1430	436	550	168	360	110

The serial digital interconnect standards are designed to operate where the signal loss at 1/2 the clock frequency does not exceed the approximate loss values listed below.
The maximum length values shown are based on typical attenuation values for the cables listed and the following criteria:

Maximum length = 30 dB loss at 1/2 the clock frequency: SMPTE 259M, PAL, Widescreen.
Maximum length = 20 dB loss at 1/2 the clock frequency: SMPTE 292M.

The bit error rate (BER) can vary dramatically as the calculated distances are approached. BER is dependent on receiver design and the losses of the actual coax used. Distribution and routing equipment manufacturers should be contacted to verify their maximum recommended transmission.

Return Loss Headroom (1694A)



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BELDEN
SENDING ALL THE RIGHT SIGNALS

NEW GENERATION®



New Generation® Cables

20

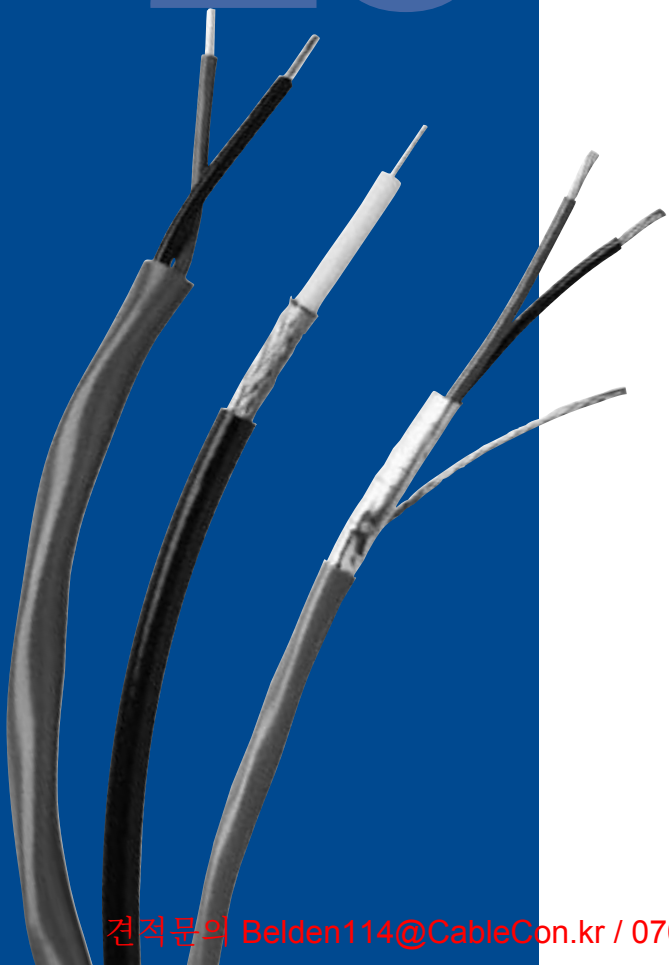


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Please refer to "Terms of Use of Master Catalog" on page 22.22

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Sound, Security and Alarm Cables

Introduction

Market needs are continually challenging the limits of cable technology. And nowhere is the demand for uncompromising quality and leading-edge technology more critical than in sound and security applications.

Belden's answer to this challenge is a line of low voltage, electronic cables that provide the selection, imagination, technical expertise and quality required to meet the demands of increasingly complex sound and security systems. We call this line New Generation.

Unmatched Selection, Quality And Service

Our New Generation cable line includes one of the largest, most economical, and up-to-date selections of reliable multi-conductor and coaxial products on the market today. A full complement of cables for sound, control, computer interconnect, alarm, security, CCTV and other security applications is offered. And behind every one of these cables is years of research and development and Belden's unequaled reputation for quality and service.

Most of our New Generation cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a New Generation cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Innovative and Advanced Cables

For over 90 years, Belden has been committed to the development and support of highly effective cabling solutions. With Belden® New Generation cable products, you can be assured that you're getting the most innovative and advanced cables available today. Here are a few examples of our commitment to making our cables not only work better but also better to work with:

- Sequential footage markings on the cable jacket quickly eliminate guesswork and waste.
- The cables are predominantly NEC Riser Rated (CMR and FPLR) or above to meet even unusually stringent application conditions. All Belden CM, CMR and CMP types are both UL and C(UL) approved.
- A rip cord underneath the jacket provides for easy removal at installation.
- Easy set-up and easy-pulling, space-saving, tangle-free coil packages available for many codes. These revolutionary coil packages vastly reduce job clean-up and waste removal as well.
- Water-blocked options for multi-conductor cables and for coax — where security, surveillance and fire alarm cables are installed in intermittently wet environments.
- Our Banana Peel® Composite Cables are designed for easier and faster installation than traditional composite cables. They offer no overall jacket which eliminates the stripping of the jacket, individual cable components that are all instantly identifiable, a smaller OD, breakout versatility, prevention of short circuits caused by contact with the center conductor while stripping the outer jacket, and color-coded individual cables by application for easy identification.
- Our New Generation Safe-T-Line® Cables for Circuit Integrity meet Article 760 of the National Electrical Code for Fire-Alarm Circuit Integrity (CI) cable, the National Fire Alarm Code (NFPA 72) requirements for survivability; UL Standard 1424 — Cables for Power-limited Fire Alarm Circuits, and UL Standard 2196 — Circuit Integrity Two-hour Flame Test.

Quality You Can Count On

A system failure, or loss of continuity, can be catastrophic. That's why you need a cable that is recognized the world over for its quality. And that cable is a Belden cable. All of our New Generation cables are designed with quality as a top priority. Belden was the first major designer and manufacturer of electronic wire and cable products to earn ISO 9001:2000 registration for all its domestic and overseas facilities. In achieving total ISO 9001:2000 registration; United States' Belden passed some of the United States' and Europe's most rigorous tests for quality and, once again, demonstrated the company's dedication to total quality.

New Generation Cable Packaging

UnReel® Dispenser

As with most Belden cables, several New Generation cable products are available in Belden's UnReel cardboard dispenser. The UnReel is a unique packaging dispensing system developed by Belden to save time and labor compared to spools, and eliminate the need for dereeling equipment. Lightweight and more economical than conventional drums or reels, UnReel dispensers have pre-punched handles for easy, individual transport as well as rectangular boxes for easy pallet delivery and storage. UnReel cable pays out smoothly and evenly with less kinking, twisting or backlashing. It also rolls out 60% faster than cable from spools or reels.

Revolutionary Coil Package

New this year, certain New Generation cables are available in a coil package. These revolutionary coils are an easy-to-handle standard package size so pallet loading is uniform. In addition, this densely packaged coil results in less space requirements for your wire, saving shelf space, truck space and cage space at the job. Plus, with no box and no spool, there is far less waste and clean-up required after the job.

Coils are the most tangle-proof package available. And, because the wire pulls from the middle you only have to pull the weight of the length of wire that is your distance from the coil. In pulling spools, you are always pulling the *whole package* weight to get it spinning. And with spools, when you stop pulling, the spool doesn't stop spinning. Help is required to stop this from happening and to keep the payouts tangle free. With coils, that help can be doing something more productive. What's more, five coils may be stacked and pulled in parallel through their common center.

So ask for New Generation's coil package, and leave reel jacks and payout stands behind along with any worries about wet boxes or discarding of empty boxes.

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Sound, Security and Alarm Cables

Cable Finder Guide — By Construction
Paired and Multiconductor

NEW GENERATION®

AWG Size	No. of Cond. or Pairs	Stranding	Non-Shielded						Shielded					
			Non-Plenum			Plenum			Non-Plenum			Plenum		
			Part No.	Rating	Page No.	Part No.	Rating	Page No.	Part No.	Rating	Page No.	Part No.	Rating	Page No.
Paired														
18	2 PR	7	5341UE	CMR	20.15	6341UE	CMP	20.25	5341FE	CMR	20.16	—	—	—
	3 PR	7	5342UE	CMR	20.15	6342UE	CMP	20.25	5342FE	CMR	20.16	6342FE	CMP	20.26
	4 PR	7	5343UE	CMR	20.15	6343UE	CMP	20.25	5343FE	CMR	20.16	6343FE	CMP	20.26
	6 PR	7	5345UE	CMR	20.15	6345UE	CMP	20.25	5345FE	CMR	20.16	6345FE	CMP	20.26
	9 PR	7	5347UE	CMR	20.15	6347UE	CMP	20.25	—	—	—	6347FE	CMP	20.26
20	2 PR	7	—	—	—	—	—	—	5441FE	CMR	20.16	6441FE	CMP	20.26
	3 PR	7	—	—	—	—	—	—	5442FE	CMR	20.16	—	—	—
	4 PR	7	—	—	—	—	—	—	—	—	—	6443FE	CMP	20.26
	6 PR	7	—	—	—	—	—	—	5445FE	CMR	20.16	—	—	—
22	2 PR	Solid	—	—	—	6561UE	CMP	20.25	5561FE	CMR	20.16	6561FE	CMP	20.26
	2 PR	7	5541UE	CMR	20.15	6541UE	CMP	20.25	5541FE	CMR	20.16	6541FE	CMP	20.26
	3 PR	Solid	—	—	—	—	—	—	5562FE	CMR	20.16	—	—	—
	3 PR	7	5542UE	CMR	20.15	6542UE	CMP	20.25	5542FE	CMR	20.16	6542FE	CMP	20.26
	4 PR	Solid	—	—	—	—	—	—	5563FE	CMR	20.16	—	—	—
	4 PR	7	5543UE	CMR	20.15	6543UE	CMP	20.25	5543FE	CMR	20.16	6543FE	CMP	20.26
	6 PR	7	—	—	—	6545UE	CMP	20.25	5545FE	CMR	20.16	6545FE	CMP	20.26
	9 PR	7	5547UE	CMR	20.15	6547UE	CMP	20.25	—	—	—	6547FE	CMP	20.26
Shielded Twisted Pairs														
22	4 STP	7	—	—	—	—	—	—	5543PE	CMR	20.17	—	—	—
Combination Pairs + Conductors														
18	1STP +2/C	7	—	—	—	—	—	—	5302GE	CMR	20.18	—	—	—
20	1STP +1/C	7	—	—	—	—	—	—	5401GE	CMR	20.18	6401GE	CMP	20.27
	1STP +2/C	7	—	—	—	—	—	—	5402GE	CMR	20.18	—	—	—
22	1STP +1/C	7	—	—	—	—	—	—	5501GE	CMR	20.18	6501GE	CMP	20.27
	1STP +2/C	7	—	—	—	—	—	—	5502GE	CMR	20.18	6502GE	CMP	20.27
	1STP +2TP	7	—	—	—	—	—	—	5542GE	CMR	20.18	—	—	—
Water-blocked														
18	2/C	7	5300U1	CM	20.14	—	—	—	5300F1	CM	20.14	—	—	—
20	2/C	7	—	—	—	—	—	—	5400F1	CM	20.14	—	—	—
22	2/C	7	—	—	—	—	—	—	5500F1	CM	20.14	—	—	—
	1STP +1/C	Solid	—	—	—	—	—	—	5521G1	CM	20.19	—	—	—
	1STP +1/C	7	—	—	—	—	—	—	5501G1	CM	20.19	—	—	—
	1STP +2/C	Solid	—	—	—	—	—	—	5522G1	CM	20.19	—	—	—
	1STP +2/C	7	—	—	—	—	—	—	5502G1	CM	20.19	—	—	—
	1STP +4/C	7	—	—	—	—	—	—	5504G1	CM	20.19	—	—	—

STP = Shielded Twisted Pair(s) • TP = Twisted Pair(s) • PR = Pair(s) • /C = Conductor(s)

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Sound, Security and Alarm Cables

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NEW GENERATION®

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			Part No.	Rating	Page No.	Part No.	Rating	Page No.	Part No.	Rating	Page No.	Part No.	Rating	Page No.
Security, Alarm, Commercial Audio and Speaker														
12	2	19	5000UE	CL3R	20.11/65	6000UE	CL2P	20.22/68	5000FE	CL3R	20.13/67	6000FE	CL2P	20.24/69
	3	19	5001UE	CL3R	20.11/65	6001UE	CL2P	20.22/68	—	—	—	—	—	—
	4	19	—	—	—	6002UE	CL2P	20.22	—	—	—	—	—	—
14	2	19	5100UE	CL3R	20.11/65	6100UE	CL2P	20.22/68	5100FE	CL3R	20.13/67	6100FE	CL2P	20.24/69
	3	19	5101UE	CL3R	20.11/65	6101UE	CL2P	20.22/68	5101FE	CL3R	20.13/67	6101FE	CL2P	20.24/69
	4	19	5102UE	CL3R	20.11	6102UE	CL2P	20.22	—	—	—	—	—	—
16	2	19	5200UE	CMR	20.10/65	6200UE	CMP	20.21/68	5200FE	CMR	20.13/67	6200FE	CMP	20.24/69
	3	19	5201UE	CMR	20.10/65	6201UE	CMP	20.21/68	5201FE	CMR	20.13/67	6201FE	CMP	20.24/69
	4	19	5202UE	CMR	20.10	6202UE	CMP	20.21	5202FE	CMR	20.13	6202FE	CMP	20.24
	7	19	5205UE	CMR	20.10	—	—	—	—	—	—	—	—	—
18	2	Solid	5320UE	CMR	20.10/65	6320UE	CMP	20.21/68	5320FE	CMR	20.13/67	6320FE	CMP	20.24/69
	2	7	5300UG	CM	20.8	6300UE	CMP	20.21/68	5300FE	CMR	20.13/67	6300FE	CMP	20.24/69
	2	7	5300UE	CMR	20.10/65	—	—	—	—	—	—	—	—	—
	3	Solid	5321UE	CMR	20.10/65	6321UE	CMP	20.21/68	—	—	—	—	—	—
	3	7	5301UE	CMR	20.10/65	6301UE	CMP	20.21/68	5301FE	CMR	20.13/67	6301FE	CMP	20.24/69
	4	Solid	5322UE	CMR	20.10	6322UE	CMP	20.21	—	—	—	—	—	—
	4	7	5302UE	CMR	20.10	6302UE	CMP	20.21	5302FE	CMR	20.13	6302FE	CMP	20.24
	5	7	5303UE	CMR	20.10	6303UE	CMP	20.21	5303FE	CMR	20.13	—	—	—
	6	7	5304UE	CMR	20.10	6304UE	CMP	20.21	5304FE	CMR	20.13	6304FE	CMP	20.24
	7	7	5305UE	CMR	20.10	—	—	—	5305FE	CMR	20.13	—	—	—
	8	7	5306UE	CMR	20.10	6306UE	CMP	20.21	5306FE	CMR	20.13	6306FE	CMP	20.24
	9	7	5307UE	CMR	20.10	6307UE	CMP	20.21	5307FE	CMR	20.13	6307FE	CMP	20.24
	10	7	5308UE	CMR	20.10	6308UE	CMP	20.21	—	—	—	—	—	—
	12	7	5309UE	CMR	20.10	6309UE	CMP	20.21	—	—	—	6309FE	CMP	20.24
	20	7	530BUE	CMR	20.10	—	—	—	—	—	—	—	—	—
20	2	Solid	—	—	—	—	—	—	—	—	—	6420FE	CMP	20.23/69
	2	7	5400UE	CMR	20.9/65	6400UE	CMP	20.20/68	5400FE	CMR	20.12/67	6400FE	CMP	20.23/69
	3	Solid	—	—	—	—	—	—	5421FE	CMR	20.67	—	—	—
	3	7	5401UE	CMR	20.9/65	6401UE	CMP	20.20/68	5401FE	CMR	20.12/67	6401FE	CMP	20.23/69
	4	7	5402UE	CMR	20.9	6402UE	CMP	20.20	5402FE	CMR	20.12	6402FE	CMP	20.23
	5	7	5403UE	CMR	20.9	6403UE	CMP	20.20	5403FE	CMR	20.12	—	—	—
	7	7	5405UE	CMR	20.9	—	—	—	5405FE	CMR	20.12	6405FE	CMP	20.23
	8	7	5406UE	CMR	20.9	6406UE	CMP	20.20	—	—	—	—	—	—
	9	7	5407UE	CMR	20.9	—	—	—	5407FE	CMR	20.12	6407FE	CMP	20.23
	10	7	5408UE	CMR	20.9	—	—	—	—	—	—	—	—	—
	12	7	5409UE	CMR	20.9	—	—	—	—	—	—	—	—	—
	20	7	540BUE	CMR	20.9	—	—	—	—	—	—	—	—	—
22	2	Solid	5520UG	CM	20.8/28	—	—	—	—	—	—	—	—	—
	2	Solid	5520UE	CMR	20.9/65	6520UE	CMP	20.20/68	5520FE	CMR	20.12/67	6520FE	CMP	20.23/69
	2	7	5500UG	CM	20.8	6500UE	CMP	20.20/68	5500FE	CMR	20.12/67	6500FE	CMP	20.23/69
	2	7	5500UE	CMR	20.9/65	—	—	—	—	—	—	—	—	—
	3	Solid	—	—	—	6521UE	CMP	20.20/68	5521FE	CMR	20.12/67	6521FE	CMP	20.23/69
	3	7	5501UE	CMR	20.9/65	6501UE	CMP	20.20/68	5501FE	CMR	20.12/67	6501FE	CMP	20.23/69
	4	Solid	5582UG	CM	20.8	—	—	—	—	—	—	—	—	—
	4	Solid	5522UG	CM	20.8/28	—	—	—	—	—	—	—	—	—
	4	Solid	5522UE	CMR	20.9	6522UE	CMP	20.20	—	—	—	—	—	—
	4	Solid	5582UE	CMR	20.9	—	—	—	—	—	—	—	—	—
	4	7	5502UG	CM	20.8	6502UE	CMP	20.20	5502FE	CMR	20.12	6502FE	CMP	20.23
	4	7	5502UE	CMR	20.9	—	—	—	—	—	—	—	—	—
	5	7	5503UE	CMR	20.9	—	—	—	5503FE	CMR	20.12	—	—	—
	6	Solid	5524UE	CMR	20.9	6524UE	CMP	20.20	—	—	—	—	—	—
	6	7	5504UE	CMR	20.9	6504UE	CMP	20.20	5504FE	CMR	20.12	6504FE	CMP	20.23
	8	Solid	5526UE	CMR	20.9	—	—	—	—	—	—	—	—	—
	8	7	5506UE	CMR	20.9	6506UE	CMP	20.20	5506FE	CMR	20.12	6506FE	CMP	20.23
	10	7	5508UE	CMR	20.9	6508UE	CMP	20.20	5508FE	CMR	20.12	6508FE	CMP	20.23
	12	Solid	5529UE	CMR	20.9	—	—	—	—	—	—	—	—	—
	12	7	5509UE	CMR	20.9	6509UE	CMP	20.20	—	—	—	—	—	—

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Sound, Security and Alarm Cables

Cable Finder Guide — By Application

NEW GENERATION®

AWG Size	No. of Cond. or Pairs	Stranding	Non-Shielded						Shielded					
			Non-Plenum			Plenum			Non-Plenum			Plenum		
			Part No.	Rating	Page No.	Part No.	Rating	Page No.	Part No.	Rating	Page No.	Part No.	Rating	Page No.
Security, Alarm, Commercial Audio and Speaker *(continued)*														
24	2/C	7	—	—	—	—	—	—	5600FE	CMR	20.12/67	—	—	—
	6/C	Solid	5624UG	CM	20.28/71	6624UG	CM	20.29/72	—	—	—	—	—	—
	8/C	Solid	5626UG	CM	20.28/71	6626UG	CM	20.29/72	—	—	—	—	—	—
	3 PR	Solid	5662UG	CM	20.28/71	6662UG	CM	20.29/72	—	—	—	—	—	—
Pro Audio Plenum, Lower Capacitance														
18	2/C	7	—	—	—	—	—	—	—	—	—	6300FC	CMP	20.30/70
	4/C	7	—	—	—	—	—	—	—	—	—	6302FC	CMP	20.30/70
	2 STP	7	—	—	—	—	—	—	—	—	—	6341PC	CMP	20.32
	3 STP	7	—	—	—	—	—	—	—	—	—	6342PC	CMP	20.32
	4 STP	7	—	—	—	—	—	—	—	—	—	6343PC	CMP	20.32
	6 STP	7	—	—	—	—	—	—	—	—	—	6345PC	CMP	20.32
20	2/C	7	—	—	—	—	—	—	—	—	—	6400FC	CMP	20.30/70
22	2/C	7	—	—	—	—	—	—	—	—	—	6500FC	CMP	20.30/70
	4/C	7	—	—	—	—	—	—	—	—	—	6502FC	CMP	20.30/70
	2 STP	7	—	—	—	—	—	—	—	—	—	6541PA	CMP	20.32
	3 STP	7	—	—	—	—	—	—	—	—	—	6542PA	CMP	20.32
	4 STP	7	—	—	—	—	—	—	—	—	—	6543PA	CMP	20.32
	6 STP	7	—	—	—	—	—	—	—	—	—	6545PA	CMP	20.32
	8 STP	7	—	—	—	—	—	—	—	—	—	6546PA	CMP	20.32
	12 STP	7	—	—	—	—	—	—	—	—	—	6548PA	CMP	20.32
	16 STP	7	—	—	—	—	—	—	—	—	—	6549PA	CMP	20.32
24	2 TP*	7	—	—	—	—	—	—	—	—	—	6641FC	CMP	20.31
High-Strand Speaker Cable														
10	2/C	65	5T00UP	CL2	20.66	6T00UP	CL2P	20.68	—	—	—	—	—	—
12	2/C	65	5000UP	CL3	20.66	—	—	—	—	—	—	—	—	—
	4/C	65	5002UP	CL3	20.66	—	—	—	—	—	—	—	—	—
14	2/C	42	5100UP	CL3	20.66	—	—	—	—	—	—	—	—	—
	4/C	42	5102UP	CL3	20.66	—	—	—	—	—	—	—	—	—
16	2/C	65	5200UP	CM	20.66	—	—	—	—	—	—	—	—	—
	4/C	65	5202UP	CM	20.66	—	—	—	—	—	—	—	—	—
18	2/C	42	5300UP	CM	20.66	—	—	—	—	—	—	—	—	—
	4/C	42	5302UP	CM	20.66	—	—	—	—	—	—	—	—	—
Fire Alarm														
12	2/C	Solid	5020UL	FPLR	20.55	6020UL	FPLP	20.59	5020FL	FPLR	20.56	6020FL	FPLP	20.59
14	2/C	Solid	5120UL	FPLR	20.55	6120UL	FPLP	20.59	5120FL	FPLR	20.56	6120FL	FPLP	20.59
	4/C	Solid	5122UL	FPLR	20.55	6122UL	FPLP	20.59	5122FL	FPLR	20.56	6122FL	FPLP	20.59
16	2/C	Solid	5220UL	FPLR	20.55	6220UL	FPLP	20.59	5220FL	FPLR	20.56	6220FL	FPLP	20.59
	4/C	Solid	5222UL	FPLR	20.55	6222UL	FPLP	20.59	5222FL	FPLR	20.56	6222FL	FPLP	20.59
18	2/C	Solid	5320UL	FPLR	20.55	6320UL	FPLP	20.59	5320FL	FPLR	20.56	6320FL	FPLP	20.59
	3/C	Solid	—	—	—	6321UL	FPLP	20.59	—	—	—	—	—	—
	4/C	Solid	5322UL	FPLR	20.55	6322UL	FPLP	20.59	5322FL	FPLR	20.56	6322FL	FPLP	20.59
	6/C	Solid	5324UL	FPLR	20.55	6324UL	FPLP	20.59	—	—	—	—	—	—
	8/C	Solid	5326UL	FPLR	20.55	6326UL	FPLP	20.59	—	—	—	—	—	—
	10/C	Solid	5328UL	FPLR	20.55	6328UL	FPLP	20.59	—	—	—	—	—	—
	12/C	Solid	5329UL	FPLR	20.55	—	—	—	—	—	—	—	—	—
22	4/C	Solid	5522UL	FPLR	20.55	6522UL	FPLP	20.59	5522FL	FPLR	20.56	—	—	—
	6/C	Solid	5524UL	FPLR	20.55	6524UL	FPLP	20.59	—	—	—	—	—	—

STP = Shielded Twisted Pair(s) • TP = Twisted Pair(s) • /C = Conductor(s)
*Overall Shielded

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Sound, Security and Alarm Cables

Cable Finder Guide — By Application

NEW GENERATION®

AWG Size	No. of Cond. or Pairs	Stranding	Non-Shielded						Shielded					
			Non-Plenum			Plenum			Non-Plenum			Plenum		
			Part No.	Rating	Page No.	Part No.	Rating	Page No.	Part No.	Rating	Page No.	Part No.	Rating	Page No.
Fire Alarm, Mid-Capacitance														
12	2/C	Solid	—	—	—	—	—	—	5020FJ	FPL	20.57	—	—	—
14	2/C	Solid	—	—	—	6120UJ	FPLP	20.60	5120FJ	FPL	20.57	—	—	—
16	2/C	Solid	5220UJ	FPL	20.57	6220UJ	FPLP	20.60	5220FJ	FPL	20.57	6220FK	FPLP	20.60
	4/C	Solid	—	—	—	—	—	—	5222FJ	FPL	20.57	—	—	—
18	2/C	Solid	5320UJ	FPL	20.57	6320UJ	FPLP	20.60	5320FJ	FPL	20.57	6320FK	FPLP	20.60
	4/C	Solid	—	—	—	—	—	—	5322FJ	FPL	20.57	—	—	—
Fire Alarm, Non-Power-Limited														
12	2/C	Solid	—	—	—	—	—	—	5020FN	NPLF	20.58	—	—	—
14	2/C	Solid	5120UN	NPLF	20.58	—	—	—	5120FN	NPLF	20.58	—	—	—
	4/C	Solid	—	—	—	—	—	—	5122FN	NPLF	20.58	—	—	—
16	2/C	Solid	5220UN	NPLF	20.58	—	—	—	5220FN	NPLF	20.58	—	—	—
	4/C	Solid	5222UN	NPLF	20.58	—	—	—	5222FN	NPLF	20.58	—	—	—
18	2/C	Solid	5320UN	NPLF	20.58	—	—	—	5320FN	NPLF	20.58	—	—	—
	4/C	Solid	5322UN	NPLF	20.58	—	—	—	5322FN	NPLF	20.58	—	—	—
Fire Alarm Circuit Integrity (CI)														
12	2/C	19	—	—	—	—	—	—	5000FM	FPLR-CI	20.64	—	—	—
	2/C	Solid	5020UM	FPLR-CI	20.63	—	—	—	5020FM	FPLR-CI	20.64	—	—	—
	4/C	19	—	—	—	—	—	—	5002FM	FPLR-CI	20.64	—	—	—
	4/C	Solid	5022UM	FPLR-CI	20.63	—	—	—	5022FM	FPLR-CI	20.64	—	—	—
14	2/C	19	—	—	—	—	—	—	5100FM	FPLR-CI	20.64	—	—	—
	2/C	Solid	5120UM	FPLR-CI	20.63	—	—	—	5120FM	FPLR-CI	20.64	—	—	—
	4/C	19	—	—	—	—	—	—	5102FM	FPLR-CI	20.64	—	—	—
	4/C	Solid	5122UM	FPLR-CI	20.63	—	—	—	5122FM	FPLR-CI	20.64	—	—	—
16	2/C	19	—	—	—	—	—	—	5200FM	FPLR-CI	20.64	—	—	—
	2/C	Solid	5220UM	FPLR-CI	20.63	—	—	—	5220FM	FPLR-CI	20.64	—	—	—
	4/C	19	—	—	—	—	—	—	5202FM	FPLR-CI	20.64	—	—	—
	4/C	Solid	5222UM	FPLR-CI	20.63	—	—	—	5222FM	FPLR-CI	20.64	—	—	—
18	2/C	7	—	—	—	—	—	—	5300FM	FPLR-CI	20.64	—	—	—
	2/C	Solid	5320UM	FPLR-CI	20.63	—	—	—	5320FM	FPLR-CI	20.64	—	—	—
	4/C	7	—	—	—	—	—	—	5302FM	FPLR-CI	20.64	—	—	—
	4/C	Solid	5322UM	FPLR-CI	20.63	—	—	—	5322FM	FPLR-CI	20.64	—	—	—
	6/C	7	—	—	—	—	—	—	5304FM	FPLR-CI	20.64	—	—	—
	6/C	Solid	5324UM	FPLR-CI	20.63	—	—	—	5324FM	FPLR-CI	20.64	—	—	—
	8/C	7	—	—	—	—	—	—	5306FM	FPLR-CI	20.64	—	—	—
	8/C	Solid	5326UM	FPLR-CI	20.63	—	—	—	5326FM	FPLR-CI	20.64	—	—	—
Fire Alarm Circuit Integrity in Conduit (CIC)														
12	2/C	Solid	5000UZ	FPLR-CI	20.61	—	—	—	5000FZ	FPLR-CI	20.62	—	—	—
14	2/C	7	5100UZ	FPLR-CI	20.61	—	—	—	5100FZ	FPLR-CI	20.62	—	—	—
	2/C	Solid	5120UZ	FPLR-CI	20.61	—	—	—	5120FZ	FPLR-CI	20.62	—	—	—
16	2/C	7	5200UZ	FPLR-CI	20.61	—	—	—	5200FZ	FPLR-CI	20.62	—	—	—
	2/C	Solid	5220UZ	FPLR-CI	20.61	—	—	—	5220FZ	FPLR-CI	20.62	—	—	—
	4/C	Solid	—	—	—	—	—	—	5222FZ	FPLR-CI	20.62	—	—	—
Thermostat and Control Cable														
18	1 PR	7	—	—	—	—	—	—	5340FT	CMR/CMG	20.33	6340FT	CMP	20.34
	2 PR	7	—	—	—	—	—	—	5341PT	CMR/CMG	20.33	6341PT	CMP	20.34
22	1 PR	7	—	—	—	—	—	—	5540FT	CMR/CMG	20.33	6540FT	CMP	20.34
	2 PR	7	—	—	—	—	—	—	5541PT	CMR/CMG	20.33	6541PT	CMP	20.34
24	1 PR	Solid	—	—	—	—	—	—	5660FT	CMR/CMG	20.33	6660FT	CMP	20.34
	2 PR	Solid	—	—	—	—	—	—	5661PT	CMR/CMG	20.33	6661PT	CMP	20.34

/C = Conductor(s) • PR = Pair(s) • STP = Shielded Twisted Pair(s) • TP = Twisted Pair(s)
*Overall Shielded

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Sound, Security and Alarm Cables

Cable Finder Guide — Coax and Composite

NEW GENERATION®

Coax Series or Component Type	AWG Size	Stranding	Non-Plenum				Plenum			
			Part No.	Rating	Shield/Braid Coverage	Page No.	Part No.	Rating	Shield/Braid Coverage	Page No.
CATV/MATV Coax										
RG-59/U	20	Solid	—	—	—	—	6439C8	CMP	Duofoil + 80% Aluminum	20.49
	20	Solid	—	—	—	—	6439Q8	CMP	Quad Shield	20.49
RG-6/U	18	Solid	5339B5	CM	Duofoil + 60% Aluminum	20.48	633938	CMP	Duofoil + 90% Aluminum	20.49
	18	Solid	5339Q5	CM	Quad Shield	20.48	6339Q8	CMP	Quad Shield	20.49
RG-11/U	14	Solid	—	—	—	—	6139B8	CMP	Duofoil + 60% Aluminum	20.49
CCTV Coax										
Mini 59	25	Solid	573945	CM	94% Bare Copper	20.37	673948	CMP	95% Bare Copper	20.39
RG-59/U	22	7	551945	CM	95% Bare Copper	20.37	—	—	—	—
	20	Solid	543945	CM	95% Bare Copper	20.37	643948	CMP	95% Bare Copper	20.39
RG-6/U	18	Solid	533945	CM	95% Bare Copper	20.37	633948	CMP	95% Bare Copper	20.39
RG-11/U	14	Solid	513945	CM	95% Bare Copper	20.37	613948	CMP	95% Bare Copper	20.39
CCTV Coax, Surveillance										
RG-59/U	20	Solid	—	—	—	—	7986LC	CMP	95% Bare Copper	20.50
RG-6/U	18	Solid	—	—	—	—	7985LC	CMP	95% Bare Copper	20.50
CATV Coax, Water-blocked										
RG-59/U	20	Solid	5439W5	CM	Duofoil® + 95% TC	20.37	—	—	—	—
RG-6/U	18	Solid	5339W5	CM	Duofoil + 60% Aluminum	20.37	—	—	—	—
Security Coax										
RG-62	22	Solid	—	—	—	—	6539Y8	CMP	95% Bare Copper	20.39
Schlage Coax										
RG-6/U	18	Solid	5399B5	CM	Duobond® + 60% Alum.	20.48	—	—	—	—
CCTV Composite Coax with Unshielded Pair for Control or Power										
Mini RG-59 UTP	25 20	Solid 7	579945	CM	95% Bare Copper Unshielded	20.38	679948	CMP	95% Bare Copper Unshielded	20.38
RG-59 UTP	20 18	Solid 7	549945	CM	95% Bare Copper Unshielded	20.38	649948	CMP	95% Bare Copper Unshielded	20.38
RG-6 UTP	18 18	Solid 7	539945	CM	95% Bare Copper Unshielded	20.38	639948	CMP	95% Bare Copper Unshielded	20.38
Pan/Tilt/Zoom BananaPeel Composite Coax										
RG-59/U 1UTP 2/C	20 23 18	Solid Solid 7	500PTZ	CMR	95% Bare Copper Braid Unshielded Unshielded	20.42	600PTZ	CMP	95% Bare Copper Braid Unshielded Unshielded	20.43
RG-59/U 1STP 2/C	20 22 18	Solid 7 7	501PTZ	CMR	95% Bare Copper Braid Beldfoil® Unshielded	20.44	601PTZ	CMP	95% Bare Copper Braid Beldfoil Unshielded	20.45
RG-59/U 1STP 2/C	20 18 18	Solid 7 7	502PTZ	CMR	95% Bare Copper Braid Beldfoil Unshielded	20.46	602PTZ	CMP	95% Bare Copper Braid Beldfoil Unshielded	20.47
CCTV Surveillance UTP and Composite Cables										
2/C 2TP	16 24	19 Solid	5284US	CMR	Unshielded Unshielded	20.51	6284US	CMP	Unshielded Unshielded	20.52
2/C 2TP	16 23	19 Solid	5284UE	CMR	Unshielded Unshielded	20.51	6284UE	CMP	Unshielded Unshielded	20.52
2/C 4TP	16 23	19 Solid	5288US	CMR	Unshielded Unshielded	20.51	6288US	CMP	Unshielded Unshielded	20.52
4TP	24	Solid	1583A	CM	Unshielded	20.40/53	1585A	CMP	Unshielded	20.41/54
4TP	24	Solid	1500A	CM	Unshielded	20.40/53	1501A	CMP	Unshielded	20.41/54
4TP	24	Solid	1583R	CMR	Unshielded	20.40/53	—	—	—	—
2TP	24	Solid	1500R	CMR	Unshielded	20.40/53	—	—	—	—
4TP	23	Solid	7881A	CMR	Unshielded	20.40/53	7882A	CMP	Unshielded	20.41/54
Access Control BananaPeel® Composite Cables										
4/C 3TP 4/C 2/C	18 22 22 22	7 7 7 7	558AFS	CMR	Beldfoil Beldfoil Beldfoil Beldfoil	20.36	658AFS	CMP	Beldfoil Beldfoil Beldfoil Beldfoil	20.35
4/C 3TP 4/C 2/C	16 18 18 18	19 7 7 7	538AFS	CMR	Beldfoil Beldfoil Beldfoil Beldfoil	20.36	638AFS	CMP	Beldfoil Beldfoil Beldfoil Beldfoil	20.35

STP = Shielded Twisted Pair • TC = Tinned Copper • TP = Twisted Pair(s) • UTP = Unshielded Twisted Pair • /C = Conductor(s) (Multi-conductor)

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Security and Alarm Cable

Residential, Light Commercial and Institutional Applications
Unshielded

NEW GENERATION®

Unshielded Multi-conductor

CM FT1 Rated

Product Description

Bare copper conductors, polypropylene insulation, PVC jacket. Available in Beige, Brown, Orange, Yellow, Green, Blue, Purple, Gray or White jacket colors (except as noted in footnote). Conductors may not be cabled. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	Polypropylene
Insulation Thickness	.006″ (.152mm)
Jacket	PVC
Approvals	
NEC	CM
CEC	CM FT1
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Single Line Telephone
- Station Wire (5582UG)

Solid Conductor



Stranded Conductor



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC CM and CEC CM FT1)										
22 AWG										
5500UG*	2	7	C-500	C-152	3.5	1.6	.015	.38	.114	2.90
			U-500	U-152	5.0	2.3				
			C-1000	C-305	7.0	3.2				
			U-1000	U-305	9.0	4.1				
5582UG**	4	solid	C-500	C-152	6.0	2.7	.015	.38	.122	3.10
			C-1000	C-305	12.0	5.4				
			U-1000	U-305	13.0	6.0				
5502UG	4	7	C-500	C-152	6.5	3.0	.015	.38	.131	3.33
			U-500 ▲	U-152	7.5	3.4				
			C-1000	C-305	13.0	6.0				
			U-1000	U-305	14.0	6.4				
5522UG† new	4	solid	C-500	C-152	6.0	2.7	.015	.38	.122	3.10
			C-1000	C-305	12.0	5.4				
5520UG new	2	solid	C-500 ◆	C-152	3.5	1.6	.015	.38	.106	2.69
			C-1000	C-305	7.0	3.2				
18 AWG										
5300UG††	2	7	C-500	C-152	7.5	3.4	.015	.38	.148	3.76
			U-500	U-152	8.5	3.9				
			U-1000	U-305	16.0	7.3				

* U-1000 available in Brown, Gray or Natural only.
** 5582UG available in Brown, Gray, White or Beige only.
† 5522UG available in White only.
†† 5300UG available in Gray, Black or Natural only.
▲ 5502UG U-500 ft. put-up available in Gray or White only.
◆ 5520UG C-500 ft. put-up available in Gray or White only.

Color Code Chart▼
(5500UG, 5502UG, 5520UG, 5522UG, 5300UG)

Cond. No.	Color
1	Black
2	Red
3	White
4	Green

▼Except 5582UG which is Black, Red, Yellow, Green for use as station wire.

Color Code Chart
(5582UG)

Cond. No.	Color
1	Black
2	Red
3	Yellow
4	Green

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Security and Alarm Cable

Commercial Applications
Unshielded

NEW GENERATION®

Unshielded Multi-conductor

CMR/CMG FT4 Rated

Product Description

Bare copper conductors, PVC insulation, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

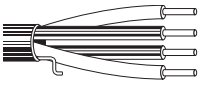
Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	.010″ (.254mm)
Jacket	PVC
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

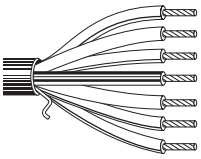
Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Single Line Telephone

Solid Conductor



Stranded Conductor



Color Code Chart††

Cond. No.	Color	Cond. No.	Color
1	Black	11	Pink
2	Red	12	Tan
3	White	13	White/Black
4	Green	14	White/Red
5	Brown	15	White/Green
6	Blue	16	White/Orange
7	Orange	17	White/Blue
8	Yellow	18	White/Brown
9	Purple	19	White/Yellow
10	Gray	20	White/Purple

††Except 5582UE which is Black, Red, Yellow, Green for use as station wire.

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC CMR and CEC CMG FT4)										
22 AWG										
5520UE	2	solid	C-500 U-500 C-1000 U-1000 1000	C-152 U-152 C-305 U-305 305	4.0 5.5 8.0 9.0 9.0	1.8 2.5 3.6 4.1 4.1	.015	.38	.122	3.10
5500UE	2	7	C-500 U-500 500 C-1000 U-1000 1000	C-152 U-152 152 C-305 U-305 305	4.0 5.5 5.5 8.0 10.0 9.0	1.8 2.5 2.5 3.6 4.5 4.1	.015	.38	.128	3.25
5501UE	3	7	U-1000 1000	U-305 305	13.0 13.0	5.9 5.9	.015	.38	.135	3.43
5522UE	4	solid	U-1000 1000	U-305 305	16.0 16.0	7.3 7.3	.015	.38	.141	3.58
5582UE*	4	solid	C-500 U-500 U-1000 1000	C-152 U-152 U-305 305	7.0 6.5 12.0 12.0	3.2 3.0 5.5 5.5	.015	.38	.141	3.58
5502UE**	4	7	C-500 U-500 U-1000 1000	C-152 U-152 U-305 305	7.5 9.0 16.0 16.0	3.4 4.1 7.3 7.3	.015	.38	.148	3.76
5503UE	5	7	U-1000 1000	U-305 305	20.0 20.0	9.1 9.1	.015	.38	.162	4.11
5524UE	6	solid	C-500 1000	C-152 305	10.5 22.0	4.8 10.0	.015	.38	.168	4.27
5504UE**	6	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	12.5 14.0 13.5 27.0 27.0	5.7 6.4 6.1 12.3 12.3	.015	.38	.177	4.50
5526UE	8	solid	1000	305	28.0	12.7	.015	.38	.182	4.62
5506UE	8	7	U-1000 1000	U-305 305	29.0 30.0	13.2 13.6	.015	.38	.192	4.88
5508UE	10	7	U-1000 1000	U-305 305	36.0 41.0	16.3 18.6	.015	.38	.226	5.74
5529UE	12	solid	U-1000 1000	U-305 305	40.0 42.0	18.1 19.1	.015	.38	.221	5.61
5509UE	12	7	U-500 U-1000 1000	U-152 U-305 305	21.5 42.0 47.0	9.8 19.1 21.4	.015	.38	.233	5.92
20 AWG										
5400UE	2	7	C-500 U-1000 1000	C-152 U-305 305	6.0 13.0 13.0	2.7 5.9 5.9	.015	.38	.142	3.61
5401UE	3	7	500 U-1000 1000	152 U-305 305	9.0 18.0 18.0	4.1 8.2 8.2	.015	.38	.150	3.81
5402UE	4	7	C-500 U-1000 1000	C-152 U-305 305	10.5 23.0 23.0	4.8 10.5 10.5	.015	.38	.165	4.19
5403UE	5	7	U-1000 1000	U-305 305	27.0 28.0	12.2 12.7	.015	.38	.181	4.60
5405UE	7	7	500 1000	152 305	19.0 40.0	8.6 18.2	.015	.38	.198	5.03
5406UE	8	7	U-1000 1000	U-305 305	41.0 43.0	18.6 19.5	.015	.38	.215	5.46
5407UE	9	7	1000	305	48.0	21.8	.015	.38	.233	5.92
5408UE	10	7	1000	305	53.0	24.1	.015	.38	.254	6.45
5409UE	12	7	1000	305	62.0	28.1	.015	.38	.262	6.65
540BUE	20	7	1000	305	110.0	49.9	.025	.64	.347	8.81

* 5582UE also available in Beige, Brown or White.
** 5502UE and 5504UE also available in White.

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Security and Alarm Cable

Commercial Applications
Unshielded

NEW GENERATION®

Unshielded Multi-conductor *(cont'd.)*

CMR/CMG FT4 Rated

Product Description

Bare copper conductors, PVC insulation, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	.010″ (.254mm)
Jacket	PVC
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

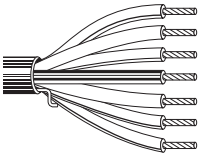
Applications

- Addressable Fire Systems
- Data Circuits
- Monitor/Detection
- Control Circuits
- Initiating Circuits
- Notification Circuits

Solid Conductor



Stranded Conductor



Color Code Chart

Cond. No.	Color	Cond. No.	Color
1	Black	11	Pink
2	Red	12	Tan
3	White	13	White/Black
4	Green	14	White/Red
5	Brown	15	White/Green
6	Blue	16	White/Orange
7	Orange	17	White/Blue
8	Yellow	18	White/Brown
9	Purple	19	White/Yellow
10	Gray	20	White/Purple

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC CMR and CEC CMG FT4)										
18 AWG										
5320UE	2	solid	C-500 U-1000	C-152 U-305	7.5 17.0	3.4 7.7	.015	.38	.151	3.84
5300UE*	2	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	8.5 9.5 9.5 17.0 18.0	3.9 4.3 4.3 7.7 8.2	.015	.38	.161	4.09
5321UE	3	solid	U-1000 1000	U-305 305	23.0 23.0	10.4 10.4	.015	.38	.160	4.06
5301UE	3	7	500 U-1000 1000	152 U-305 305	12.5 25.0 25.0	5.7 11.3 11.3	.015	.38	.171	4.34
5322UE	4	solid	1000	305	30.0	13.6	.015	.38	.176	4.47
5302UE	4	7	C-250 U-500 500 U-1000 1000	C-76.2 U-152 152 U-305 305	7.5 16.5 16.0 32.0 32.0	3.4 7.5 7.3 14.5 14.5	.015	.38	.188	4.78
5303UE	5	7	500 U-1000 1000	152 U-305 305	20.5 39.0 39.0	9.3 17.7 17.7	.015	.38	.207	5.26
5304UE	6	7	500 U-1000 1000	152 U-305 305	26.0 51.0 52.0	11.8 23.2 23.6	.015	.38	.226	5.74
5305UE	7	7	U-1000 1000	U-305 305	51.0 52.0	23.2 23.6	.015	.38	.226	5.74
5306UE	8	7	500 1000	152 305	30.0 59.0	13.6 26.8	.015	.38	.248	6.30
5307UE	9	7	1000	305	66.0	30.0	.015	.38	.269	6.83
5308UE	10	7	500 1000	152 305	38.5 74.0	17.5 33.6	.015	.38	.294	7.47
5309UE	12	7	500 1000	152 305	47.5 90.0	21.6 40.9	.020	.51	.314	7.98
530BUE	20	7	1000	305	152.0	69.0	.025	.64	.400	10.16
16 AWG										
5200UE	2	19	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.5 13.0 12.5 24.0 25.0	5.2 5.9 5.7 10.9 11.4	.015	.38	.184	4.67
5201UE	3	19	U-500 500 U-1000 1000	U-152 152 U-305 305	18.5 18.0 35.0 38.0	8.4 8.2 15.9 17.3	.015	.38	.196	4.98
5202UE	4	19	U-500 500 U-1000 1000	U-152 152 U-305 305	23.5 23.0 45.0 47.0	10.7 10.4 20.4 21.3	.015	.38	.216	5.49
5205UE	7	19	1000	305	77.0	35.0	.015	.38	.261	6.63

*5300UE also available in White or Black.

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Security and Alarm Cable

Commercial Applications
Unshielded

NEW GENERATION®

Unshielded Multi-conductor

CMR/CL3R Rated

Product Description

Bare copper conductors, PVC insulation, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

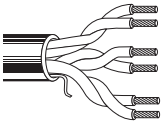
Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	.014″ (.356mm)
Jacket	PVC
Approvals	
NEC	CMR FPLR† & CL3R
NEC Articles	725 & 760
Voltage Rating	300V
Temperature Rating	75°C

†CMR FPLR dual rating for 5000UE, 5100UE, 5000FE and 5100FE only.

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Single Line Telephone
- Fire Alarm Systems (Red Only) Dual Rated**



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC CMR FPLR CL3R)										
14 AWG										
5100UE*	2	19	500 U-1000 1000	152 U-305 305	20.0 38.0 40.0	9.1 17.2 18.2	.015	.38	.234	5.94
5101UE	3	19	1000	305	56.0	25.5	.015	.38	.249	6.32
5102UE	4	19	500 1000	152 305	38.5 71.0	17.5 33.2	.015	.38	.276	7.01
12 AWG										
5000UE*	2	19	500 1000	152 305	29.0 57.0	13.2 25.9	.015	.38	.268	6.81
5001UE	3	19	1000	305	82.0	37.3	.015	.38	.286	7.26

*5100UE and 5000UE also available in Red for Fire Alarm (FPLR).

Color Code Chart

Cond. No.	Color
1	Black
2	White
3	Red
4	Green

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Security and Alarm Cable

Commercial Applications
Shielded

NEW GENERATION®

Shielded Multi-conductor

CMR/CMG FT4 Rated

Product Description

Bare copper conductors, PVC insulation, cabled, Beldfoil® shield tape (foil side out) with drain wire, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

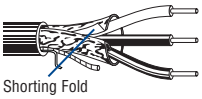
Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	.010″ (.254mm)
Shield	Beldfoil
Jacket	PVC
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

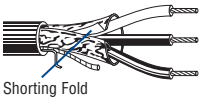
Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

Solid Conductor



Stranded Conductor



Color Code Chart

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Gray

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC CMR and CEC CMG FT4)										
24 AWG										
5600FE	2	7	U-1000 1000	U-305 305	11.0 10.0	5.0 4.5	.015	.38	.120	3.05
22 AWG										
5520FE	2	solid	C-500 C-1000 U-1000 1000	C-152 C-305 U-305 305	6.5 13.0 14.0 14.0	3.0 5.9 6.4 6.4	.015	.38	.125	3.18
5500FE	2	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	5.5 6.5 6.5 12.0 12.0	2.5 3.0 3.0 5.4 5.4	.015	.38	.130	3.30
5521FE	3	solid	U-1000 1000	U-305 305	12.0 12.0	5.4 5.4	.015	.38	.132	3.35
5501FE	3	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	7.0 8.0 7.5 15.0 15.0	3.2 3.6 3.4 6.8 6.8	.015	.38	.138	3.51
5502FE	4	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	8.5 9.5 9.5 18.0 18.0	3.9 4.3 4.3 8.2 8.2	.015	.38	.152	3.86
5503FE	5	7	1000	305	22.0	10.0	.015	.38	.165	4.19
5504FE	6	7	C-500 U-500 U-1000 1000	C-152 U-152 U-305 305	13.5 15.0 29.0 29.0	6.1 6.8 13.2 13.2	.015	.38	.179	4.55
5506FE	8	7	U-500 U-1000 1000	U-152 U-305 305	16.5 32.0 32.0	7.5 14.5 14.5	.015	.38	.196	4.98
5508FE	10	7	U-500 U-1000 1000	U-152 U-305 305	19.5 38.0 44.0	8.9 17.2 20.0	.015	.38	.230	5.84
20 AWG										
5400FE	2	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	8.0 9.0 8.5 17.0 17.0	3.6 4.1 3.9 7.2 7.2	.015	.38	.145	3.68
5401FE	3	7	U-500 500 U-1000 1000	U-152 152 U-305 305	11.0 10.5 21.0 21.0	5.0 4.8 9.5 9.5	.015	.38	.153	3.89
5402FE	4	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	12.0 12.5 13.0 25.0 26.0	5.4 5.7 5.9 11.3 11.8	.015	.38	.168	4.27
5403FE	5	7	U-1000 1000	U-305 305	30.0 30.0	13.6 13.6	.015	.38	.184	4.67
5405FE	7	7	U-1000 1000	U-305 305	39.0 40.0	17.7 18.2	.015	.38	.201	5.11
5407FE	9	7	1000	305	51.0	23.2	.015	.38	.236	5.99

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Security and Alarm Cable

Commercial Applications
Shielded

NEW GENERATION®

Shielded Multi-conductor *(cont'd.)*

CMR/CMG FT4 Rated or CL3R Rated

Product Description

Bare copper conductors, PVC insulation, cabled, Beldfoil® shield tape (foil side out) with drain wire, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

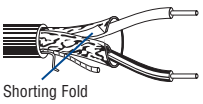
Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	
18 to 16 AWG	.010″ (.254mm)
14 to 12 AWG	.014″ (.356mm)
Shield	Beldfoil
Jacket	PVC
Approvals	
NEC (18 to 16 AWG)	CMR FPLR†
CEC (18 to 16 AWG)	CMG FT4
NEC (14 to 12 AWG)	CL3R
NEC Articles	
18 to 16 AWG	800
14 to 12 AWG	725
Voltage Rating	300V
Temperature Rating	75°C

†CMR FPLR dual rating for 5000UE, 5100UE, 5000FE and 5100FE only.

Applications

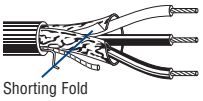
- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Fire Alarm Systems (Red Only) Dual Rated†

Solid Conductor



Shorting Fold

Stranded Conductor



Shorting Fold

Color Code Chart (18 to 16 AWG)

Cond. No.	Color	Cond. No.	Color
1	Black	6	Blue
2	Red	7	Orange
3	White	8	Yellow
4	Green	9	Purple
5	Brown	10	Gray

(14 to 12 AWG)

Cond. No.	Color
1	Black
2	White
3	Red

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC CMR and CEC CMG FT4)										
18 AWG										
5320FE	2	solid	C-500 U-1000 1000	C-152 U-305 305	10.0 21.0 21.0	4.6 9.5 9.5	.015	.38	.155	3.94
5300FE	2	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.0 12.0 12.0 23.0 23.0	5.0 5.5 5.5 10.4 10.4	.015	.38	.165	4.19
5301FE	3	7	U-500 500 U-1000 1000	U-152 152 U-305 305	15.5 15.0 30.0 30.0	7.0 6.8 13.6 13.6	.015	.38	.175	4.45
5302FE	4	7	C-250 U-500 500 U-1000 1000	C-76 U-152 152 U-305 305	8.8 19.0 20.5 36.0 37.0	4.0 8.6 9.3 16.3 16.8	.015	.38	.192	4.88
5303FE	5	7	U-500 500 U-1000 1000	U-152 152 U-305 305	22.5 22.5 43.0 45.0	10.2 10.2 19.5 20.5	.015	.38	.211	5.36
5304FE	6	7	U-500 500 1000	U-152 152 305	28.5 26.0 57.0	12.9 11.8 25.9	.015	.38	.230	5.84
5305FE	7	7	1000	305	57.0	25.9	.015	.38	.230	5.84
5306FE*	8	7	500 1000	152 305	32.0 64.0	14.5 29.1	.015	.38	.270	6.86
5307FE	9	7	1000	305	71.0	32.3	.015	.38	.272	6.91
16 AWG										
5200FE**	2	19	U-500 500 U-1000 1000	U-152 152 U-305 305	16.5 16.5 31.0 32.0	7.5 7.5 14.1 14.5	.015	.38	.188	4.78
5201FE	3	19	500 U-1000 1000	152 U-305 305	21.5 42.0 42.0	9.8 19.1 19.1	.015	.38	.200	5.08
5202FE	4	19	500 1000	152 305	26.5 54.0	12.0 24.5	.015	.38	.220	5.59
Shielded Multi-conductor (NEC CL3R)										
14 AWG										
5100FE†	2	19	500 U-1000 1000	152 U-305 305	28.5 49.0 51.0	12.9 22.2 23.2	.015	.38	.238	6.05
5101FE	3	19	1000	305	66.0	30.0	.015	.38	.253	6.43
12 AWG										
5000FE†	2	19	500 1000	152 305	36.5 67.0	16.6 30.5	.015	.38	.272	6.91

* 5306FE also available in Natural.
** 5200FE also available in White.
† 5100FE and 5000FE available in Red or Gray for Fire Alarm (FPLR).

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Security and Alarm Cable

Water-Blocked for Use in Underground Ducts
Unshielded and Shielded

NEW GENERATION®

Water-blocked, Unshielded Multi-conductor
CM FT1 Rated

Product Description

Tinned copper conductors, PVC insulation, cabled with overall water-blocking tape, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Water-blocked, Shielded Multi-conductor
CM FT1 Rated

Product Description

Tinned copper conductors, PVC insulation, cabled with overall Beldfoil® shield and drain wire, overall water-blocking tape, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: Black, Red.

Specifications

Conductor	Tinned Copper
Insulation	PVC
Insulation Thickness	.010″ (.254mm)
Shield (where applicable)	Beldfoil
Jacket	PVC
Approvals	
NEC	CM
CEC	CM FT1
NEC Articles	800
Voltage Rating	300V
Temperature Rating	105°C

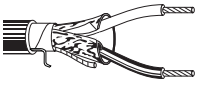
Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Indoor or Outdoor Use

Unshielded Water-blocked



Shielded and Water-blocked



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Water-blocked, Unshielded Multi-conductor (NEC CM and CEC CM FT1)										
18 AWG										
5300U1	2	7	U-500	U-152	12.0	5.5	.025	.64	.207	5.26
			500	152	13.5	6.1				
			U-1000	U-305	22.0	10.0				
			1000	305	24.0	10.9				
Water-blocked, Shielded Multi-conductor (NEC CM and CEC CM FT1)										
22 AWG										
5500F1	2	7	U-500	U-152	9.0	4.1	.025	.64	.192	4.88
			500	152	9.0	4.1				
			U-1000	U-305	16.0	7.3				
			1000	305	17.0	7.7				
20 AWG										
5400F1	2	7	U-500	U-152	11.5	5.2	.025	.64	.206	5.23
			500	152	11.0	5.0				
			U-1000	U-305	21.0	9.5				
			1000	305	21.0	9.5				
18 AWG										
5300F1	2	7	U-500	U-152	15.0	6.8	.025	.64	.222	5.64
			500	152	15.0	6.8				
			U-1000	U-305	29.0	13.2				
			1000	305	30.0	13.6				

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Security and Alarm Cable

Commercial Applications
Unshielded

NEW GENERATION®

Unshielded Twisted Pairs

CMR/CMG FT4 Rated

Product Description

Bare copper conductors, PVC insulation. Conductors twisted into pairs, multiple pairs cabled together, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

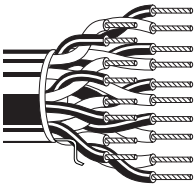
Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	.010″ (.254mm)
Jacket	PVC
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Twisted Pairs (NEC CMR and CEC CMG FT4)										
22 AWG										
5541UE	2	7	U-1000 1000	U-305 305	18.0 19.0	8.2 8.6	.015	.38	.206	5.23
5542UE	3	7	U-500 U-1000 1000	U-152 U-305 305	13.0 24.0 26.0	5.9 10.9 11.8	.015	.38	.220	5.59
5543UE	4	7	U-1000 1000	U-305 305	31.0 32.0	14.1 14.5	.015	.38	.243	6.17
5547UE	9	7	1000	305	70.0	31.8	.020	.51	.334	8.48
18 AWG										
5341UE	2	7	U-1000 1000	U-305 305	34.0 36.0	15.4 16.4	.015	.38	.266	6.76
5342UE	3	7	U-1000 1000	U-305 305	48.0 50.0	21.8 22.7	.015	.38	.283	7.19
5343UE	4	7	1000	305	67.0	30.5	.018	.46	.320	8.13
5345UE	6	7	1000	305	96.0	43.6	.018	.46	.362	9.19
5347UE	9	7	1000	305	140.0	63.6	.020	.51	.434	11.02

Color Code Chart

Pair No.	Color Combination
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green

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Security and Alarm Cable

Commercial Applications
Shielded

NEW GENERATION®

Overall Shielded Twisted Pairs

CMR/CMG FT4 Rated

Product Description

Bare copper conductors, PVC insulation. Conductors twisted into pairs, multiple pairs cabled together, overall Beldfoil® shield (foil side out) and drain wire, overall Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

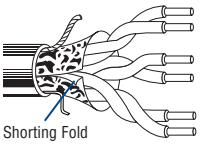
Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	.010″ (.254mm)
Shield	Beldfoil
Jacket	PVC
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

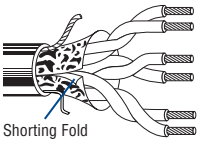
Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

Solid Conductor



Stranded Conductor



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Overall Shielded Twisted Pairs (NEC CMR and CEC CMG FT4)										
22 AWG										
5561FE	2	solid	U-1000 1000	U-305 305	21.0 22.0	9.5 10.0	.015	.38	.200	5.08
5541FE	2	7	U-500 U-1000 1000	U-152 U-305 305	11.5 21.0 23.0	5.2 9.5 10.4	.015	.38	.209	5.31
5562FE	3	solid	U-1000 1000	U-305 305	26.0 28.0	11.8 12.7	.015	.38	.212	5.38
5542FE	3	7	U-1000 1000	U-305 305	27.0 29.0	12.3 13.2	.015	.38	.223	5.66
5563FE	4	solid	U-1000	U-305	33.0	15.0	.015	.38	.246	6.25
5543FE	4	7	1000	305	34.0	15.4	.015	.38	.246	6.25
5545FE	6	7	U-1000 1000	U-305 305	46.0 48.0	20.9 21.8	.015	.38	.278	7.06
20 AWG										
5441FE	2	7	500 U-1000 1000	152 U-305 305	15.0 29.0 30.0	6.8 13.2 13.2	.015	.38	.235	5.97
5442FE	3	7	U-1000 1000	U-305 305	38.0 38.0	17.2 17.2	.015	.38	.252	6.40
5445FE	6	7	1000	305	72.0	32.7	.020	.51	.323	8.20
18 AWG										
5341FE	2	7	500 U-1000 1000	152 U-305 305	21.0 40.0 42.0	9.5 18.1 19.1	.015	.38	.270	6.86
5342FE	3	7	1000	305	52.0	23.6	.015	.38	.275	6.99
5343FE	4	7	1000	305	70.0	31.8	.015	.38	.318	8.08
5345FE	6	7	500 1000	152 305	52.5 103.0	23.9 46.8	.020	.51	.373	9.47

Color Code Chart

Pair No.	Color Combination	Pair No.	Color Combination
1	Black & Red	4	Black & Blue
2	Black & White	5	Black & Yellow
3	Black & Green	6	Black & Brown

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Security and Alarm Cable

Commercial Applications
Shielded

NEW GENERATION®

Individually Shielded Twisted Pairs

CMR/CMG FT4 Rated

Product Description

Bare copper conductors, PVC insulation. Conductors twisted into pairs and individually shielded with Beldfoil® tape (aluminum side facing in) and a drain wire, multiple pairs cabled together, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

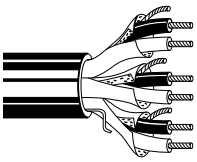
Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	.010″ (.254mm)
Shield	Beldfoil
Jacket	PVC
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Individually Shielded Twisted Pairs (NEC CMR and CEC CMG FT4)										
22 AWG										
5543PE	4	7	1000	305	55.0	25.0	.033	.84	.303	7.70

Color Code Chart

Pair No.	Color Combination
1	Black/Red & Red
2	Black/White & White
3	Black/Green & Green
4	Black/Blue & Blue

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Security and Alarm Cable

Commercial Applications
Shielded

NEW GENERATION®

Shielded
Twisted Pair plus Conductor(s)
CMR/CMG FT4 Rated

Product Description

Bare copper conductors, PVC insulation, Black/Red pair shielded with Beldfoil® tape (aluminum side facing in) and tinned copper drain wire, cabled with additional insulated conductor(s) as indicated, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: Black & Red (shielded pair), White, Green. (5542GE Black & Red, Black & White, Black & Green pairs).

Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	.010″ (.254mm)
Shield	Beldfoil
Jacket	PVC
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



Shorting Fold

Part No.	No. of Pairs + No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
STP plus Conductor(s) (NEC CMR and CEC CMG FT4)										
22 AWG										
5501GE	1 STP +1/C	7	U-1000	U-305	16.0	7.3	.015	.38	.171	4.34
5502GE	1 STP +2/C	7	U-500 U-1000 1000	U-152 U-305 305	10.0 19.0 19.0	4.5 8.6 8.6	.015	.38	.186	4.72
5542GE	1 STP +2TP	7	U-1000	U-305	26.0	11.8	.015	.38	.220	5.59
20 AWG										
5401GE	1 STP +1/C	7	1000	305	23.0	10.4	.015	.38	.196	4.98
5402GE	1 STP +2/C	7	U-1000	U-305	26.0	11.8	.015	.38	.200	5.08
18 AWG										
5302GE	1 STP +2/C	7	U-1000	U-305	38.0	17.2	.015	.38	.225	5.72

STP = Shielded Twisted Pair(s) • /C = Conductor(s)

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Security and Alarm Cable

Water-Blocked for Use in Underground Ducts

NEW GENERATION®

Water-blocked, Shielded Twisted Pair plus Conductor(s)
CM FT1 Rated

Product Description

Tinned copper conductors, PVC insulation, Black/Red conductors twisted into a pair and shielded with Beldfoil® tape (aluminum side facing in) and drain wire, cabled with additional insulated conductor(s) as indicated, water-blocking tape overall, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: Black & Red (shielded pair); White, Green, Brown, Blue.

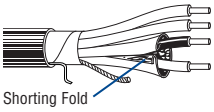
Specifications

Conductor	Tinned Copper
Insulation	PVC
Insulation Thickness	.010″ (.254mm)
Shield	
Twisted Pair	Beldfoil
Overall	Water-blocking Tape
Jacket	PVC
Approvals	
NEC	CM
CEC	CM FT1
NEC Articles	800
Voltage Rating	300V
Temperature Rating	105°C

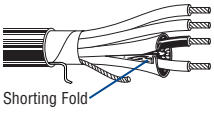
Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Indoor or Outdoor Use

Solid Conductor



Stranded Conductor



Part No.	No. of Pairs + No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Water-blocked, STP plus Conductor(s) (NEC CM and CEC CM FT1)										
22 AWG										
5521G1	1 STP +1/C	solid	U-500 500 U-1000 1000	U-152 152 U-305 305	12.0 13.0 22.0 22.0	5.4 5.9 10.0 10.0	.025	.64	.212	5.38
5501G1	1 STP +1/C	7	U-500 500 U-1000 1000	U-152 152 U-305 305	12.0 12.0 23.0 25.0	5.4 5.4 10.4 11.4	.025	.64	.222	5.64
5522G1	1 STP +2/C	solid	U-500 500 U-1000 1000	U-152 152 U-305 305	13.0 15.0 25.0 27.0	6.0 6.8 11.3 12.3	.025	.64	.224	5.69
5502G1	1 STP +2/C	7	U-500 500 U-1000 1000	U-152 152 U-305 305	14.0 14.0 27.0 29.0	6.4 6.4 12.3 13.2	.025	.64	.240	6.10
5504G1	1 STP +4/C	7	U-500 500 U-1000 1000	U-152 152 U-305 305	18.0 18.5 35.0 37.0	8.2 8.4 15.9 16.8	.025	.64	.240	6.10

STP = Shielded Twisted Pair(s) • /C = Conductor(s)

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Security and Alarm Cable

Commercial Applications
Unshielded, Plenum-Rated

NEW GENERATION®

Unshielded Multi-conductor

CMP FT6 Rated

Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, Natural Flamarrest jacket, rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	.009″ (.229mm)
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

Solid Conductor



Stranded Conductor



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC CMP and CEC CMP FT6)										
22 AWG										
6520UE	2	solid	U-1000 1000	U-305 305	10.0 9.0	4.5 4.1	.015	.38	.118	3.00
6500UE	2	7	C-500 C-1000 U-1000 1000	C-152 C-305 U-305 305	4.5 9.0 10.0 10.0	2.0 4.1 4.5 4.5	.015	.38	.124	3.15
6521UE	3	solid	1000	305	13.0	5.9	.015	.38	.125	3.18
6501UE	3	7	U-1000 1000	U-305 305	14.0 13.0	6.4 5.9	.015	.38	.131	3.33
6522UE	4	solid	U-500 U-1000 1000	U-152 U-305 305	8.5 17.0 16.0	3.9 7.7 7.3	.015	.38	.136	3.45
6502UE	4	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	8.0 9.0 8.5 17.0 17.0	3.6 4.1 3.9 7.7 7.7	.015	.38	.143	3.63
6524UE	6	solid	C-500 U-1000	C-152 U-305	10.5 23.0	4.8 10.5	.015	.38	.162	4.11
6504UE	6	7	C-500 500 U-1000 1000	C-152 152 U-305 305	11.0 12.0 24.0 24.0	5.0 5.5 10.9 10.9	.015	.38	.171	4.34
6506UE	8	7	U-500 U-1000 1000	U-152 U-305 305	15.5 30.0 31.0	7.0 13.6 14.1	.015	.38	.186	4.72
6508UE	10	7	U-1000 1000	U-305 305	37.0 43.0	16.8 19.5	.015	.38	.218	5.54
6509UE	12	7	U-500 U-1000 1000	U-152 U-305 305	22.5 43.0 45.0	10.2 19.5 20.4	.015	.38	.225	5.72
20 AWG										
6400UE	2	7	C-500 500 U-1000 1000	C-152 152 U-305 305	6.0 7.0 14.0 14.0	2.7 3.2 6.4 6.4	.015	.38	.138	3.51
6401UE	3	7	U-1000 1000 5000	U-305 305 1524	19.0 18.0 90.0	8.6 8.2 40.9	.015	.38	.146	3.71
6402UE	4	7	U-1000 1000	U-305 305	24.0 24.0	10.9 10.9	.015	.38	.160	4.06
6403UE	5	7	U-1000 1000	U-305 305	28.0 28.0	12.7 12.7	.015	.38	.176	4.47
6406UE	8	7	1000	305	44.0	20.0	.015	.38	.209	5.31

Color Code Chart

Cond. No.	Color	Cond. No.	Color
1	Black	7	Orange
2	Red	8	Yellow
3	White	9	Purple
4	Green	10	Gray
5	Brown	11	Pink
6	Blue	12	Tan

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Security and Alarm Cable

Commercial Applications
Unshielded, Plenum-Rated

NEW GENERATION®

Unshielded Multi-conductor *(cont'd.)*

CMP FT6 Rated

Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, Natural Flamarrest jacket, rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	.009″ (.229mm)
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

Solid Conductor



Stranded Conductor



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC CMP and CEC CMP FT6)										
18 AWG										
6320UE	2	solid	U-1000	U-305	17.0	7.7	.015	.38	.147	3.73
6300UE*	2	7	C-500	C-152	8.0	3.6	.015	.38	.157	3.99
			U-500	U-152	9.5	4.3				
			500	152	9.0	4.1				
			U-1000	U-305	18.0	8.2				
			1000	305	18.0	8.2				
			5000	1520	90.0	40.8				
6321UE	3	solid	U-1000	U-305	24.0	10.9	.015	.38	.156	3.96
			1000	305	24.0	10.9				
6301UE	3	7	500	152	12.5	5.7	.015	.38	.168	4.27
			U-1000	U-305	25.0	11.4				
			1000	305	25.0	11.4				
6322UE	4	solid	U-1000	U-305	30.0	13.6	.015	.38	.171	4.34
6302UE	4	7	C-250	C-76	8.5	3.9	.015	.38	.186	4.72
			C-500	C-152	17.0	7.7				
			U-500	U-152	18.5	8.4				
			500	152	18.5	8.4				
			U-1000	U-305	36.0	16.4				
			1000	305	39.0	17.7				
			5000	1524	180.0	81.7				
6303UE	5	7	U-1000	U-305	39.0	17.7	.015	.38	.203	5.16
			1000	305	40.0	18.1				
6304UE	6	7	U-500	U-152	23.5	10.7	.015	.38	.222	5.64
			500	152	23.0	10.4				
			1000	305	51.0	23.2				
6306UE	8	7	500	152	30.5	13.9	.015	.38	.242	6.15
			1000	305	65.0	29.5				
6307UE	9	7	1000	305	68.0	30.9	.015	.38	.262	6.65
6308UE	10	7	1000	305	75.0	34.1	.015	.38	.286	7.26
6309UE	12	7	1000	305	84.0	38.2	.015	.38	.296	7.52
16 AWG										
6200UE	2	19	500	152	13.0	5.9	.015	.38	.180	4.57
			U-1000	U-305	25.0	11.3				
			1000	305	26.0	11.8				
6201UE	3	19	500	152	18.0	8.2	.015	.38	.191	4.85
			U-1000	U-305	36.0	16.4				
			1000	305	37.0	16.8				
6202UE	4	19	500	152	24.0	10.9	.015	.38	.211	5.36
			U-1000	U-305	46.0	20.9				
			1000	305	52.0	23.6				

*6300UE also available in Gray and Black.

Color Code Chart

Cond. No.	Color	Cond. No.	Color
1	Black	7	Orange
2	Red	8	Yellow
3	White	9	Purple
4	Green	10	Gray
5	Brown	11	Pink
6	Blue	12	Tan

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security and Alarm Cable

Commercial Applications
Unshielded, Plenum-Rated

NEW GENERATION®

Unshielded Multi-conductor

CL2P Rated

Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, Natural Flamarrest jacket, rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	.011″ (.279mm)
Jacket	Flamarrest
Approvals	
NEC	CL2P
NEC Articles	725
Voltage Rating	150V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC CL2P)										
14 AWG										
6100UE	2	19	500 U-1000 1000 5000	152 U-305 305 1524	19.5 38.0 38.0 195.0	8.8 17.2 17.2 88.5	.015	.38	.222	5.64
6101UE	3	19	1000	305	56.0	25.4	.015	.38	.236	5.99
6102UE	4	19	1000	305	73.0	33.2	.015	.38	.261	6.63
12 AWG										
6000UE	2	19	500 1000	152 305	32.0 58.0	14.5 26.4	.015	.38	.256	6.50
6001UE	3	19	1000	305	83.0	37.7	.015	.38	.273	6.93
6002UE	4	19	1000	305	111.0	50.4	.018	.46	.308	7.82

Color Code Chart

Cond. No.	Color
1	Black
2	White
3	Red
4	Green

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Security and Alarm Cable

Commercial Applications
Shielded, Plenum-Rated

NEW GENERATION®

Shielded Multi-conductor

CMP FT6 Rated

Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, overall Beldfoil® tape shield (foil side out) and drain wire, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

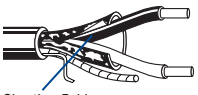
Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	.009″ (.229mm)
Shield	Beldfoil
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

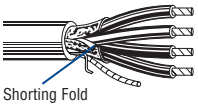
- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

Solid Conductor



Shorting Fold

Stranded Conductor



Shorting Fold

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC CMP and CEC CMP FT6)										
22 AWG										
6520FE	2	solid	C-500	C-152	6.0	2.7	.015	.38	.122	3.10
			C-1000	C-305	12.0	5.4				
			U-1000	U-305	13.0	5.9				
			1000	305	13.0	5.9				
6500FE	2	7	C-500	C-152	5.5	2.5	.015	.38	.128	3.25
			U-500	U-152	7.0	3.2				
			500	152	7.0	3.2				
			C-1000	C-305	11.0	5.0				
			U-1000	U-305	13.0	5.9				
			1000	305	13.0	5.9				
6521FE	3	solid	1000	305	16.0	7.3	.015	.38	.129	3.28
6501FE	3	7	500	152	8.0	3.6	.015	.38	.135	3.43
			U-1000	U-305	16.0	7.3				
			1000	305	16.0	7.3				
6502FE	4	7	C-500	C-152	9.0	4.1	.015	.38	.147	3.73
			500	152	10.0	4.5				
			U-1000	U-305	19.0	8.6				
			1000	305	20.0	9.1				
6504FE	6	7	C-500	C-152	9.0	4.1	.015	.38	.175	4.45
			U-500	U-152	13.5	6.1				
			500	152	13.5	6.1				
			U-1000	U-305	26.0	11.8				
			1000	305	26.0	11.8				
6506FE	8	7	U-1000	U-305	33.0	15.0	.015	.38	.190	4.83
			1000	305	35.0	15.9				
6508FE	10	7	U-1000	U-305	40.0	18.1	.015	.38	.222	5.64
			1000	305	42.0	19.0				
20 AWG										
6420FE	2	solid	C-500	C-152	7.0	3.2	.015	.38	.134	3.40
			U-1000	U-305	16.0	7.3				
			1000	305	15.0	6.8				
6400FE	2	7	C-500	C-152	7.5	3.4	.015	.38	.142	3.61
			U-1000	U-305	17.0	7.7				
			1000	305	17.0	7.7				
6401FE	3	7	U-1000	U-305	21.0	9.5	.015	.38	.150	3.81
			1000	305	22.0	10.0				
6402FE	4	7	U-1000	U-305	26.0	11.8	.015	.38	.164	4.17
			1000	305	27.0	12.3				
6405FE	7	7	1000	305	41.0	18.6	.015	.38	.196	4.97
6407FE	9	7	1000	305	52.0	23.6	.015	.38	.229	5.82

Color Code Chart

Cond. No.	Color	Cond. No.	Color
1	Black	7	Orange
2	Red	8	Yellow
3	White	9	Purple
4	Green	10	Gray
5	Brown	11	Pink
6	Blue	12	Tan

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Security and Alarm Cable

Commercial Applications
Shielded, Plenum-Rated

NEW GENERATION®

Shielded Multi-conductor *(cont'd.)*

CMP FT6 Rated or CL2P Rated

Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, overall Beldfoil® tape shield (foil side out) and drain wire, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

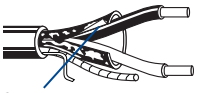
Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	
18 and 16 AWG	.009″ (.229mm)
14 and 12 AWG	.011″ (.279mm)
Shield	Beldfoil
Jacket	Flamarrest
Approvals	
NEC (18 and 16 AWG)	CMP
CEC (18 and 16 AWG)	CMP FT6
NEC (14 and 12 AWG)	CL2P
NEC Articles	
18 and 16 AWG	800
14 and 12 AWG	725
Voltage Rating	
18 and 16 AWG	300V
14 and 12 AWG	150V
Temperature Rating	75°C

Applications

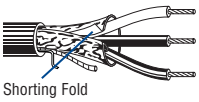
- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

Solid Conductor



Shorting Fold

Stranded Conductor



Shorting Fold

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC CMP and CEC CMP FT6)										
18 AWG										
6320FE	2	solid	C-500 1000	C-152 305	10.5 22.0	4.8 10.0	.015	.38	.150	3.89
6300FE	2	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.0 12.0 12.0 23.0 23.0	5.0 5.4 5.4 10.4 10.4	.015	.38	.162	4.11
6301FE	3	7	U-500 U-1000 1000	U-152 U-305 305	15.5 30.0 31.0	7.0 13.6 14.1	.015	.38	.172	4.37
6302FE	4	7	C-250 U-500 500 U-1000 1000	C-76 U-152 152 U-305 305	8.8 19.5 19.0 37.0 37.0	4.0 8.9 8.6 16.8 16.8	.015	.38	.188	4.78
6304FE	6	7	C-250 U-500 1000	C-76 U-152 305	12.0 25.5 52.0	5.4 11.6 23.6	.015	.38	.226	5.74
6306FE	8	7	1000	305	66.0	30.0	.015	.38	.246	6.25
6307FE	9	7	500 1000	152 305	39.5 73.0	18.0 33.2	.015	.38	.266	6.76
6309FE	12	7	500 1000	152 305	50.5 99.0	22.9 45.0	.018	.46	.306	7.77
16 AWG										
6200FE	2	19	500 1000	152 305	16.5 33.0	7.5 15.0	.015	.38	.184	4.67
6201FE	3	19	500 U-1000 1000	152 U-305 305	22.5 43.0 45.0	10.2 19.5 20.5	.015	.38	.195	4.95
6202FE	4	19	500 1000	152 305	29.0 59.0	13.2 26.8	.015	.38	.215	5.46
Shielded Multi-conductor (NEC CL2P)										
14 AWG										
6100FE	2	19	500 U-1000 1000	152 U-305 305	25.0 49.0 51.0	11.3 22.2 23.1	.015	.38	.220	5.59
6101FE	3	19	1000	305	66.0	29.9	.015	.38	.234	5.94
12 AWG										
6000FE	2	19	500 1000	152 305	36.0 68.0	16.4 30.9	.015	.38	.260	6.60

Color Code Chart (18 to 16 AWG)

Cond. No.	Color	Cond. No.	Color
1	Black	7	Orange
2	Red	8	Yellow
3	White	9	Purple
4	Green	10	Gray
5	Brown	11	Pink
6	Blue	12	Tan

(14 to 12 AWG)

Cond. No.	Color
1	Black
2	White
3	Red

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security and Alarm Cable

Commercial Applications
Unshielded, Plenum-Rated

NEW GENERATION®

Unshielded Twisted Pairs

CMP FT6 Rated

Product Description

Bare copper conductors, Flamarrest® insulation, twisted into pairs, multiple pairs cabled together, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

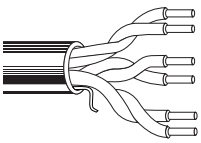
Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	.009″ (.229mm)
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

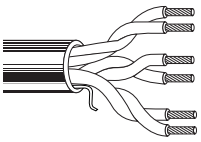
Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

Solid Conductor



Stranded Conductor



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Twisted Pairs (NEC CMP and CEC CMP FT6)										
22 AWG										
6561UE	2	solid	1000	305	19.0	8.6	.015	.38	.188	4.78
6541UE	2	7	U-1000 1000	U-305 305	19.0 20.0	8.6 9.1	.015	.38	.199	5.05
6542UE	3	7	1000	305	27.0	12.2	.015	.38	.212	5.38
6543UE	4	7	1000	305	34.0	15.4	.015	.38	.234	5.94
6545UE	6	7	1000	305	47.0	21.4	.015	.38	.264	6.71
6547UE	9	7	1000	305	69.0	31.4	.018	.46	.318	8.08
18 AWG										
6341UE	2	7	500 U-1000 1000	152 U-305 305	21.0 36.0 38.0	9.5 16.3 17.3	.015	.38	.260	6.60
6342UE	3	7	U-1000 1000	U-305 305	48.0 50.0	21.8 22.7	.015	.38	.278	7.06
6343UE	4	7	500 1000	152 305	37.5 66.0	17.0 30.0	.015	.38	.314	7.98
6345UE	6	7	1000	305	95.0	43.2	.018	.46	.355	9.02
6347UE	9	7	1000	305	138.0	62.7	.019	.48	.423	10.74

Color Code Chart

Pair No.	Color Combination	Pair No.	Color Combination
1	Black & Red	6	Black & Brown
2	Black & White	7	Black & Orange
3	Black & Green	8	Red & White
4	Black & Blue	9	Red & Green
5	Black & Yellow		

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Security and Alarm Cable

Commercial Applications
Shielded, Plenum-Rated

NEW GENERATION®

Overall Shielded Twisted Pairs

CMP FT6 Rated

Product Description

Bare copper conductors, Flamarrest® insulation, twisted into pairs, multiple pairs cabled together, overall Beldfoil® shield tape (foil side out) with drain wire, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

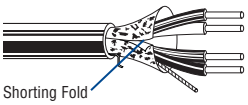
Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	.009″ (.229mm)
Shield	Beldfoil
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

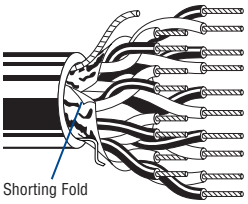
Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

Solid Conductor



Stranded Conductor



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Overall Shielded Twisted Pairs (NEC CMP and CEC CMP FT6)										
22 AWG										
6561FE	2	solid	1000	305	21.0	9.5	.015	.38	.193	4.90
6541FE	2	7	U-500 U-1000 1000	U-152 U-305 305	11.5 22.0 23.0	5.2 10.0 10.4	.015	.38	.203	5.16
6542FE	3	7	U-1000 1000	U-305 305	28.0 29.0	12.7 13.2	.015	.38	.216	5.49
6543FE	4	7	U-1000 1000	U-305 305	35.0 41.0	15.9 18.6	.015	.38	.238	6.05
6545FE	6	7	U-1000 1000	U-305 305	48.0 50.0	21.8 22.7	.015	.38	.268	6.80
6547FE	9	7	1000	305	72.0	32.7	.018	.46	.323	8.20
20 AWG										
6441FE	2	7	1000	305	31.0	14.1	.015	.38	.228	5.79
6443FE	4	7	U-1000 1000	U-305 305	49.0 51.0	22.2 23.2	.015	.38	.269	6.83
18 AWG										
6342FE	3	7	500 1000	152 305	28.0 56.0	12.7 25.5	.015	.38	.282	7.16
6343FE	4	7	500 1000	152 305	39.5 74.0	18.0 33.6	.015	.38	.318	8.08
6345FE	6	7	500 1000	152 305	50.0 101.0	22.7 45.9	.018	.46	.359	9.12
6347FE	9	7	1000	305	145.0	65.8	.019	.48	.427	10.85

Color Code Chart

Pair No.	Color Combination
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green

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Security and Alarm Cable

Commercial Applications
Shielded, Plenum-Rated

NEW GENERATION®

Shielded
Twisted Pair plus Conductor(s)
CMP FT6 Rated

Product Description

Bare copper conductors, Flamarrest® insulation, Black/Red twisted pair shielded with Beldfoil® tape (aluminum side facing in), drain wire, cabled with additional insulated conductor(s) as indicated, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

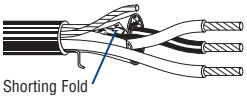
Color Code: Black & Red pair, White, Green.

Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	.009″ (.229mm)
Shield	Beldfoil
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



Shielded Twisted Pair plus Conductor(s) (NEC CMP and CEC CMP FT6)

Part No.	No. of Pairs + No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
22 AWG										
6501GE	1 STP +1/C	7	1000	305	18.0	8.2	.015	.38	.174	4.42
6502GE	1 STP +2/C	7	U-1000 1000	U-305 305	21.0 21.0	9.5 9.5	.015	.38	.180	4.57
20 AWG										
6401GE	1 STP +1/C	7	1000	305	24.0	10.9	.015	.38	.195	4.95

STP = Shielded Twisted Pair(s) • /C = Conductor(s)

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Communication and Control Cable

Pro Audio and Intercom Systems
Unshielded

NEW GENERATION®

Unshielded,
Pairs or Multi-conductor
CM FT1 Rated*

Product Description

Bare copper conductors, polypropylene (multiconductor) or polyolefin (paired) insulation, PVC jacket with rip cord (except 5626UG and 5624UG which do not have rip cord).

5500 Series available in Beige, Brown, Orange, Yellow, Green, Blue, Purple, Gray or White jacket colors (except as noted in footnote). Conductors may not be cabled. Sequential footage marking every two feet. **5600 Series** available in Dark Gray.

Color Code: See charts below.

Specifications

Conductor	Bare Copper
Insulation	
Multiconductor	Polypropylene
Paired	Polyolefin
Insulation Thickness	
5500 Series	.0060″ (.152mm)
5600 Series	.0065″ (.165mm)
Jacket	PVC
Approvals	
NEC	CM
CEC	CM FT1*
Voltage Rating	300V

*Only 5520UG and 5522UG are CEC/CM FT1 rated

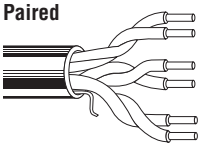
Applications (5500)

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Single Line Telephone

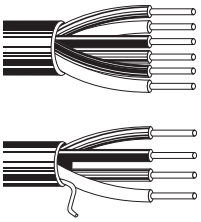
Applications (5600)

- Nurse Call Systems
- Annunciators
- Voice Systems
- Paging
- Commercial Sound Systems

Paired



Multi-conductor



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded, Pairs (NEC CM and CEC CM FT1)										
24 AWG, Cat. 5e										
5662UG new	6 (3/pr)	solid	1000	304.8	16.0	8.62	—	—	.172	4.37
Unshielded, Multi-conductor (NEC CM and CEC CM)										
24 AWG										
5626UG new	8	solid	1000	304.8	29.0	13.15	.030	.762	.093 x .324	2.36 x 8.23
5624UG new	6	solid	1000	304.8	19.0	8.62	.024	.610	.081 x .246	2.06 x 6.25
Unshielded Multi-conductor (NEC CM and CEC CM FT1)										
22 AWG										
5522UG† new	4	solid	C-500 C-1000	C-152 C-305	6.0 12.0	2.7 5.4	.015	.38	.122	3.10
5520UG new	2	solid	C-500 ◆ C-1000	C-152 C-305	3.5 7.0	1.6 3.2	.015	.38	.106	2.69

† 5522UG available in White only.
◆ 5520UG C-500 ft. put-up available in Gray or White only.

Color Code Chart — Paired
(5662UG)

Pair No.	Color Combinations
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green

Color Code Chart
(5626UG)

Cond. No.	Color
1	Yellow
2	Blue
3	Black
4	Orange
5	Red
6	Green
7	White
8	Purple

Color Code Chart
(5624UG)

Cond. No.	Color
1	Blue
2	Black
3	Orange
4	Red
5	Green
6	White

Color Code Chart
(5522UG, 5520UG)

Cond. No.	Color
1	Black
2	Red
3	White
4	Green

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Communication and Control Cable

Pro Audio and Intercom Systems
Unshielded, Plenum-Rated

NEW GENERATION®

Unshielded,
Pairs or Multi-conductor
CMP FT6 Rated

Product Description

24 AWG solid bare copper conductors, FEP insulation, Dark Gray Flamarrest® jacket with rip cord.

Color Code: See Charts below.

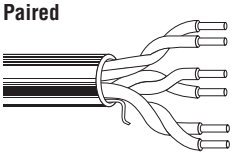
Specifications

Conductor	Bare Copper
Insulation	FEP
Insulation Thickness	.007″ (.178mm)
Jacket	Flamarrest
Nominal Capacitance	15 pF/ft.
Approvals	
NEC	CMP
CEC	CMP FT6
Voltage Rating	300V

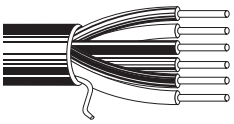
Applications

- Nurse Call Systems
- Commercial Sound Systems
- Annunciators
- Voice Systems
- Paging

Paired



Multi-conductor



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Plenum-rated, Unshielded, Pairs (NEC CMP and CEC CMP FT4, FT6)										
24 AWG, Cat. 5e										
6662UG new	6 (3/pr)	solid	1000	304.8	23.0	10.4	—	—	.165	4.19
Plenum-rated, Unshielded, Multi-conductor (NEC CMP and CEC CMP FT6)										
24 AWG										
6626UG new	8	solid	1000	304.8	28.0	12.70	.019	.483	.072 x .310	1.83 x 7.87
6624UG new	6	solid	1000	304.8	21.0	9.53	.019	.483	.072 x .246	1.83 x 6.25

Color Code Chart
(6662UG)

Pair No.	Color Combinations
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green

Color Code Chart
(6626UG)

Cond. No.	Color
1	Yellow
2	Blue
3	Black
4	Orange
5	Red
6	Green
7	White
8	Purple

Color Code Chart
(6624UG)

Cond. No.	Color
1	Blue
2	Black
3	Orange
4	Red
5	Green
6	White

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Communication and Control Cable

Pro Audio and Intercom Systems
Shielded, Plenum-Rated

NEW GENERATION®

Shielded Multi-conductor
CMP FT6 Rated

Product Description

Bare copper conductors, FEP insulation, conductors cabled with a Beldfoil® shield tape (foil side out) and drain wire. Natural Flamarrest® jacket with rip cord. Sequential footage marking every two feet.

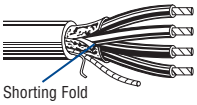
Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	FEP
Insulation Thickness	
22 AWG	.0055″ (.140mm)
20 AWG	.0060″ (.152mm)
18 AWG	.0060″ (.152mm)
Shield	Beldfoil
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Pro Audio Systems
- Intercom/PA Systems
- Security Systems



Shorting Fold

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC CMP and CEC CMP FT6)										
22 AWG										
6500FC	2	7	U-1000 1000	U-305 305	11.0 11.0	5.0 5.0	.015	.38	.116	2.95
6502FC	4	7	1000	305	18.0	8.2	.015	.38	.133	3.38
20 AWG										
6400FC	2	7	U-1000	U-305	15.0	6.8	.015	.38	.133	3.38
18 AWG										
6300FC	2	7	U-1000 1000	U-305 305	23.0 22.0	10.4 10.0	.017	.42	.155	3.94
6302FC	4	7	U-1000 1000	U-305 305	34.0 36.0	15.5 16.3	.017	.42	.179	4.55

Color Code Chart

Cond No.	Color
1	Black
2	Red
3	White
4	Green

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Communication and Control Cable

Pro Audio and Intercom Systems
Overall Shielded, Plenum-Rated

NEW GENERATION®

Overall Shielded Pairs
CMP FT6 Rated

Product Description

Bare copper conductors, FEP insulation, twisted pairs cabled with a Beldfoil® shield tape (foil side out) and drain wire. Natural Flamarrest® jacket.

Color Code: Black & Red and Black & White pairs.

Specifications

Conductor	Bare Copper
Insulation	FEP
Insulation Thickness	.0060″ (.152mm)
Shield	Beldfoil
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Pro Audio Systems
- Intercom/PA Systems
- Security Systems



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Overall Shielded Pairs (NEC CMP and CEC CMP FT6)										
24 AWG										
6641FC	2	7	U-500	U-152	8.0	3.6	.015	.38	.164	4.17

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Communication and Control Cable

Pro Audio and Intercom Systems
Individually Shielded, Plenum-Rated

NEW GENERATION®

Individually Shielded Twisted Pairs

CMP FT6 Rated

Product Description

Bare copper conductors, FEP insulation (per table). Conductors twisted into pairs and individually shielded with Beldfoil® tape (aluminum side facing in) and a drain wire, multiple pairs cabled together, Gray Fluorocopolymer (22 AWG) or Natural Flamarrest® (18 AWG) jacket, rip cord. Sequential footage marking every two feet.

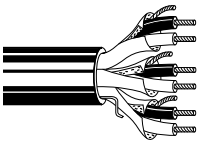
Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	FEP
Insulation Thickness	.010″ (.254mm)
Shield	Beldfoil
Jacket	
22 AWG	Gray Fluorocopolymer
18 AWG	Natural Flamarrest
Nominal Capacitance	
22 AWG	27.5 pF/ft.
18 AWG	44 pF/ft.
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Analog Multi-pair Snakes



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Individually Shielded Twisted Pairs (NEC CMP and CEC CMP FT6)										
22 AWG										
6541PA	2	7	500 U-1000 1000	152 U-305 305	13.5 26.0 27.0	6.1 11.8 12.3	.015	.38	.214	5.44
6542PA	3	7	1000	305	36.0	16.3	.015	.38	.228	5.79
6543PA	4	7	1000	305	45.0	20.4	.015	.38	.252	6.40
6545PA	6	7	1000	305	60.0	27.2	.015	.38	.300	7.62
6546PA	8	7	1000	305	85.0	38.6	.017	.42	.332	8.43
6548PA	12	7	1000	305	125.0	56.8	.017	.42	.408	10.36
6549PA	16	7	1000	305	162.0	73.5	.017	.42	.457	11.61
18 AWG										
6341PC	2	7	500 U-1000 1000	152 U-305 305	26.5 47.0 49.0	12.0 21.3 22.2	.017	.42	.281	7.14
6342PC	3	7	500 1000	152 305	32.0 64.0	14.5 29.0	.017	.42	.300	7.62
6343PC	4	7	1000	305	83.0	37.7	.017	.42	.332	8.43
6345PC	6	7	500 1000	152 305	66.5 132.0	30.2 59.9	.019	.48	.402	10.21

Color Code Chart

Pair No.	Color Combination
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow

Pair No.	Color Combination
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue

Pair No.	Color Combination
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue
16	Green & Yellow

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Thermostat & Control Cable

Commercial Applications
Shielded

NEW GENERATION®

Overall Shielded Twisted Pairs

CMR/CMG FT4 Rated

Product Description

Tinned copper conductors, Datalene® insulation. Conductors twisted into pairs, overall Beldfoil® shield (100% coverage), tinned copper drain wire, overall Brown PVC jacket. Sequential footage marking every two feet.

Color Code: Black & White, Green & Red.

Specifications

Conductor	Bare Copper
Insulation	Datalene
Shield	Beldfoil
Jacket	PVC
Approvals	
NEC	CMR
CEC	CMG FT4
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Thermostat and control cable

Stranded Conductor



Solid Conductor



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Overall Shielded Twisted Pairs (NEC CMR and CEC CMG FT4)										
24 AWG										
5660FT	1	solid	1000	305	11.0	5.0	.015	.38	.138	3.50
5661PT	2	solid	1000	305	18.0	8.2	.015	.38	.165	4.19
22 AWG										
5540FT	1	7	1000	305	15.0	6.8	.015	.38	.172	4.37
5541PT	2	7	1000	305	25.0	11.3	.015	.38	.202	5.13
18 AWG										
5340FT	1	7	1000	305	34.0	15.4	.015	.38	.260	6.60
5341PT	2	7	1000	305	58.0	26.3	.015	.38	.308	7.82

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Thermostat & Control Cable

Commercial Applications
Shielded, Plenum-Rated

NEW GENERATION®

Overall Shielded Twisted Pairs

CMP FT6 Rated

Product Description

Tinned copper conductors, Foam Fluorinated Ethylene Propylene (FFEP) insulation. Conductors twisted into pairs, overall Beldfoil® shield (100% coverage), tinned copper drain wire, overall Brown Flamarrest® jacket. Sequential footage marking every two feet.

Color Code: Black & White, Green & Red.

Specifications

Conductor	Bare Copper
Insulation	FFEP
Shield	Beldfoil
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Thermostat and control cable

Stranded Conductor



Solid Conductor



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Overall Shielded Twisted Pairs (NEC CMP and CEC CMP FT6)										
24 AWG										
6660FT	1	solid	1000	305	11.0	5.0	.015	.38	.128	3.25
6661PT	2	solid	1000	305	19.0	8.6	.015	.38	.155	3.94
22 AWG										
6540FT	1	7	1000	305	32.0	6.8	.015	.38	.162	4.12
6541PT	2	7	1000	305	28.0	12.7	.015	.38	.192	4.88
18 AWG										
6340FT	1	7	1000	305	32.0	6.8	.015	.38	.260	6.60
6341PT	2	7	1000	305	60.0	27.2	.015	.38	.280	7.11

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Access Control Banana Peel® Cable

Lock Power, Card Reader, Door Contact, REX Applications
Plenum-Rated

NEW GENERATION®

Composite
Shielded Multi-Conductors
CMP FT6 Rated

Product Description

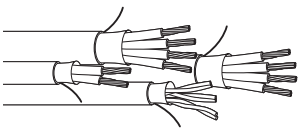
Stranded bare copper conductors, Flamarrest® insulation and jackets. No overall jacket. All cables are Beldfoil® shielded (100% coverage) with drain wire and rip cord. Cable jackets are color coded by application. Individual jacket is sequentially marked at two foot intervals.

Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Shield	Beldfoil
Individual Jackets	Flamarrest
Overall Jacket	None
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Power-Limited Controls
- Access Control
- Card Reader
- Lock Power
- Door Control
- REX



Part No.	Component Descriptions	Insulation Material & (Color Code)	Jacket Material & Component OD Inch	Jacket Material & Component OD mm	Overall Nom. OD Inch	Overall Nom. OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg
Composite Shielded Multi-Conductors (NEC CMP and CEC CMP FT6)										
(3) Shielded Multi-Conductors • (1) Shielded Multi-Pair										
658AFS new	(1) 3-Pair 22 AWG Stranded (7x30) Bare Copper Shielded	Flamarrest (Black & Red, White & Green, Orange & Brown)	Orange Flamarrest .218	5.54	.420	10.67	500 1000	152 304	60 113	27.2 51.3
	(1) 2-Cond. 22 AWG Stranded (7x30) Bare Copper Shielded	Flamarrest (Black, Red)	White Flamarrest .131	3.33						
	(1) 4-Cond. 22 AWG Stranded (7x30) Bare Copper Shielded	Flamarrest (Black, Red, White, Green)	Blue Flamarrest .150	3.81						
	(1) 4-Cond. 18 AWG Stranded (7x26) Bare Copper Shielded	Flamarrest (Black, Red, White, Green)	Gray Flamarrest .191	4.85						
638AFS new	(1) 3-Pair 18 AWG Stranded (7x26) Bare Copper Shielded	Flamarrest (Black & Red, White & Green, Orange & Brown)	Orange Flamarrest .291	7.39	.542	13.77	1000	305	189	85.7
	(1) 2-Cond. 18 AWG Stranded (7x26) Bare Copper Shielded	Flamarrest (Black, Red)	White Flamarrest .168	4.27						
	(1) 4-Cond. 18 AWG Stranded (7x26) Bare Copper Shielded	Flamarrest (Black, Red, White, Green)	Blue Flamarrest .197	5.00						
	(1) 4-Cond. 16 AWG Stranded (19x30) Bare Copper Shielded	Flamarrest (Black, Red, White, Green)	Gray Flamarrest .224	5.69						

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Print Legend	Cable Type
Orange	Card Reader	3/P, 18 or 22 AWG, Shielded
White	Door Contact	2/C, 18 or 22 AWG, Shielded
Blue	Rex/Spare	4/C, 18 or 22 AWG, Shielded
Gray	Lock Power	4/C, 16 or 18 AWG, Shielded

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Access Control Banana Peel® Cable

Lock Power, Card Reader, Door Contact, REX Applications
Riser-Rated

NEW GENERATION®

Composite
Shielded Multi-Conductors
CMR/CMG Rated

Product Description

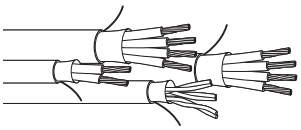
Stranded bare copper conductors, PVC or Flame-retardant PVC insulation and jackets. No overall jacket. All cables are Beldfoil® shielded (100% coverage) with drain wire and rip cord. Cable jackets are color coded by application. Individual jacket is sequentially marked at two foot intervals.

Specifications

Conductor	Bare Copper
Insulation	PVC or FR-PVC
Shield	Beldfoil
Individual Jackets	PVC or FR-PVC
Overall Jacket	None
Approvals	
NEC	CMR
CEC	CMG
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Power-Limited Controls
- Access Control
- Card Reader
- Lock Power
- Door Control
- REX



Part No.	Component Descriptions	Insulation Material & (Color Code)	Jacket Material & Component OD		Overall Nom. OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Composite Shielded Multi-Conductors (NEC CMR and CEC CMG)										
(3) Shielded Multi-Conductors • (1) Shielded Multi-Pair										
558AFS new	(1) 3-Pair 22 AWG Stranded (7x30) Bare Copper Shielded	F-R PVC (Black & Red, White & Green, Orange & Brown)	Orange FR-PVC .233	5.92	.448	11.38	500 1000	152 305	59 108	26.5 49.0
	(1) 2-Cond. 22 AWG Stranded (7x30) Bare Copper Shielded	F-R PVC (Black, Red)	White FR-PVC .140	3.56						
	(1) 4-Cond. 22 AWG Stranded (7x30) Bare Copper Shielded	F-R PVC (Black, Red, White, Green)	Blue FR-PVC .161	4.09						
	(1) 4-Cond. 18 AWG Stranded (7x26) Bare Copper Shielded	F-R PVC (Black, Red, White, Green)	Gray FR-PVC .202	5.13						
538AFS new	(1) 3-Pair 18 AWG Stranded (7x26) Bare Copper Shielded	PVC (Black & Red, White & Green, Orange & Brown)	Orange PVC .285	7.24	.516	13.11	1000	305	182	82.6
	(1) 2-Cond. 18 AWG Stranded (7x26) Bare Copper Shielded	PVC (Black, Red)	White PVC .175	4.45						
	(1) 4-Cond. 18 AWG Stranded (7x26) Bare Copper Shielded	PVC (Black, Red, White, Green)	Blue PVC .202	5.13						
	(1) 4-Cond. 16 AWG Stranded (19x30) Bare Copper Shielded	PVC (Black, Red, White, Green)	Gray PVC .230	5.84						

F-R = Flame-retardant

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Print Legend	Cable Type
Orange	Card Reader	3/P, 18 or 22 AWG, Shielded
White	Door Contact	2/C, 18 or 22 AWG, Shielded
Blue	Rex/Spare	4/C, 18 or 22 AWG, Shielded
Gray	Lock Power	4/C, 16 or 18 AWG, Shielded

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security Coaxial Cable

Surveillance and CCTV Applications
Shielded or Flooded for Use in Underground Ducts

NEW GENERATION®

Coax
CM FT1 Rated

Product Description

Bare copper conductor, foam polyethylene insulation, bare copper braid shield. Black PVC jacket. Sequential footage marking every two feet.

Water-blocked Coax
CM FT1 Rated

Product Description

Bare copper conductor, foam polyolefin insulation, foil plus braid shield as shown per item, braid impregnated with CoreGuard® flame retardant flooding compound, Black UV resistant PVC jacket. Sequential footage marking every two feet.

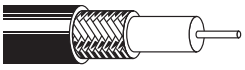
Specifications

Conductor	Bare Copper
Insulation	FPE
Shield	
Coax	Bare Copper Braid
Water-blocked Coax	Foil + Braid
Jacket	PVC
Approvals	
NEC	CM
CEC	CM FT1
NEC Articles	800
Nominal Impedance	75Ω
Temperature Rating	75°C

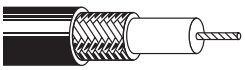
Applications

- CCTV
- Video Security Coax

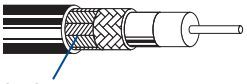
Solid Conductor



Stranded Conductor



Water-blocked



Part No.	AWG	Stranding and Conductor	Shield/ Braid Coverage	Insulation Nominal OD Inch	Insulation Nominal OD mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg
Coax (NEC CM and CEC CM FT1)											
Mini RG-59 Type											
573945*	25	solid BC	94% BC	.085	2.16	.146	3.71	U-1000 1000	U-305 305	15.0 14.0	6.8 6.4
RG-59 Type											
551945	22	7/w BC	95% BC	.140	3.56	.232	5.89	U-1000 1000	U-305 305	33.0 30.0	15.0 13.6
543945*	20	solid BC	95% BC	.145	3.68	.232	5.89	U-500 500 U-1000 1000	U-152 152 U-305 305	12.5 13.0 25.0 31.0	5.7 6.0 11.3 14.1
RG-6 Type											
533945*	18	solid BC	95% BC	.180	4.57	.266	6.76	500 U-1000 1000	152 U-305 305	21.0 40.0 41.0	9.5 18.1 18.6
RG-11 Type											
513945	14	solid BC	95% BC	.280	7.11	.405	10.29	500 1000	152 305	52.5 98.0	23.8 44.5
Water-blocked Coax (NEC CM and CEC CM FT1)											
RG-59 Type											
5439W5	20	solid BC	Duobond® II + 95% tinned copper braid	.145	3.68	.236	5.99	U-500 500 U-1000 1000	U-152 152 U-305 305	17.5 17.5 34.0 34.0	7.9 7.9 15.4 15.4
RG-6 Type											
5339W5	18	solid BC	Duofoil® + 60% aluminum braid	.180	4.57	.270	6.86	U-500 500 U-1000 1000	U-152 152 U-305 305	15.5 15.5 30.0 30.0	7.0 7.0 13.6 13.6

BC = Bare Copper

*Available in other jacket colors. Consult **www.belden.com**.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security Composite Cable

CCTV plus Audio or Power or Pan and Tilt CCTV Control Applications
Plenum-Rated and Non-Plenum

NEW GENERATION®

Non-Plenum Composite Coax plus Twisted Pair

CM FT1 or CMG-LS FT4 Rated

Product Description

Coax: Solid bare copper conductor, foam polyolefin insulation, bare copper braid shield. Black PVC jacket (1306SB has Black LSZH jacket).

Pair: Stranded bare copper conductor, PVC insulation, Black PVC jacket. (1306SB has polypropylene insulation. Black LSZH jacket.) Color coded: Black & Red.

Plenum-Rated Composite Coax plus Twisted Pair

CMP FT6 Rated

Product Description

Coax: Solid bare copper conductor, FEP insulation, bare copper braid shield, Natural Flamarrest® jacket.

Pair: Stranded FEP insulation, Natural Flamarrest jacket.Color coded: Black & Red.

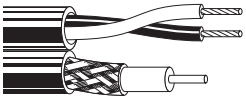
Coax and pair in Siamese configuration.
Sequential footage marking every two feet.

Specifications

Conductor	Bare Copper
Insulation (Non-Plenum)	
Coax	FPO
Pair	PVC
Insulation (Plenum)	FEP
Shield (Coax)	Bare Copper Braid
Jacket	
Non-Plenum	PVC
Plenum	Flamarrest
Approvals (Non-Plenum)	
NEC	CM
CEC	CM FT1
Approvals (LSZH)	
NEC	CMG-LS
CEC	CMG-LS FT4 Limited Smoke
Approvals (Plenum)	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Nominal Impedance (Coax)	75Ω
Temperature Rating	75°C

Applications

- CCTV plus Audio or Power
- Pan, Tilt and Zoom CCTV Control



Part No.	AWG	Stranding and Conductor	Shield/ Braid Coverage	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
				Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
CM-Rated Composite (NEC CM and CEC CM FT1)											
Mini RG-59 Type											
579945 new	25(cx)	solid BC	95% BC	.085	2.16	.151	3.84	500	152	15.0	6.8
	20(pr)	7/w BC	unshielded	.056	1.42	x .332	x 8.43	1000	305	29.0	13.2
RG-59 Type											
549945	20(cx)	solid BC	95% BC	.145	3.68	.232	5.89	500	152	30.0	13.6
	18(pr)	7/w BC	unshielded	.066	1.68	x .460	x 11.68	1000	305	60.0	27.3
RG-6 Type											
539945	18(cx)	solid BC	95% BC	.180	4.57	.266	6.76	500	152	34.0	15.5
	18(pr)	7/w BC	unshielded	.066	1.68	x .500	x 12.70	1000	305	69.0	31.3
CMG-LS -Rated Composite (NEC CMG-LS and CEC CMG-LS FT4 Limited Smoke)											
RG-6 Type											
1306SB new	18(cx)	solid BC	95% BC	.180	4.57	.275	6.99	500	152	37.0	16.8
	18(pr)	7/w BC	unshielded	.059	1.59	x .514	x 13.06	1000	305	76.0	34.5
Plenum-Rated Composite (NEC CMP and CEC CMP FT6)											
Mini RG-59 Type											
679948* new	25(cx)	solid BC	95% BC	.078	1.98	.144	3.66	500	152	16.5	7.4
	20(pr)	7/w BC	unshielded	.048	1.22	x .328	x 8.33	1000	305	34.0	15.5
RG-59 Type											
649948	20(cx)	solid BC	95% BC	.134	3.40	.199	5.05	500	152	29.0	13.2
	18(pr)	7/w BC	unshielded	.059	1.50	x .383	x 9.72	1000	305	54.0	24.5
RG-6 Type											
639948	18(cx)	solid BC	95% BC	.170	4.32	.232	5.89	500	152	32.0	14.5
	18(pr)	7/w BC	unshielded	.059	1.50	x .416	x 10.57	1000	305	60.0	27.2

BC = Bare Copper • cx = Coax • pr = Pair • LSZH = Low-Smoke, Zero-Halogen

*679948 also available in White.

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Security Coaxial Cable

CCTV and Card Reader/Sensor Applications
Plenum-Rated

NEW GENERATION®

Plenum-Rated Coax

CMP FT6 Rated

Product Description

Bare copper or copper-covered steel conductor, foam FEP insulation, bare copper braid shield. Natural Flamarrest® jacket (except 613948 which is White fluorocopolymer). Sequential footage marking every two feet.

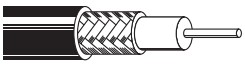
Specifications

Conductor	Solid BC or BCCS
Insulation	Foam FEP
Shield	Bare Copper Braid
Jacket	Flamarrest†
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Nominal Impedance	75Ω
Nominal Impedance (6539Y8 only)	93Ω
Temperature Rating	75°C

†613948 jacket is White fluorocopolymer.

Applications

- CCTV
- Card Reader/Sensor (6539Y8)



Part No.	AWG	Stranding and Conductor	Shield/ Braid Coverage	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
				Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Plenum-Rated Coax for CCTV (NEC CMP and CEC CMP FT6)											
Mini RG-59 Type											
673948	25	solid BC	95% BC	.078	1.98	.146	3.71	U-500	U-152	9.0	4.1
								U-1000	U-305	17.0	7.7
								1000	305	17.0	7.7
RG-59 Type											
643948*	20	solid BC	95% BC	.135	3.43	.193	4.90	U-500	U-152	16.0	7.3
								500	152	17.5	8.0
								U-1000	U-305	30.0	13.6
								1000	305	32.0	14.5
RG-6 Type											
633948	18	solid BC	95% BC	.170	4.32	.228	5.79	U-500	U-152	20.5	9.8
								500	152	20.5	9.8
								U-1000	U-305	40.0	18.1
								1000	305	42.0	19.1
RG-11 Type											
613948	14	solid BC	95% BC	.274	6.96	.348	8.84	500	152	44.5	20.2
								1000	305	90.0	40.9

*643948 also available in Black jacket.

Plenum-Rated Coax for Card Readers/Sensors (NEC CMP, CEC CMP FT6)

RG-62 Type											
6539Y8	22	solid BCCS	95% BC	.146	3.71	.204	5.18	U-1000	U-305	31.0	14.1
								1000	305	33.0	15.0

BC = Bare Copper • BCCS = Bare Copper-covered Steel

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security UTP Cable

CCTV Fixed and PTZ Applications
Riser-Rated

NEW GENERATION®

Non-Plenum
CM FT1 or CMR FT4 Rated

Product Description

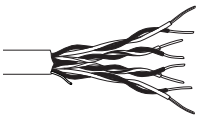
Solid bare copper conductors, unshielded twisted pairs, polyolefin insulation, PVC jacket with rip cord. Sequential footage marking every two feet.

Specifications

Conductor	Solid Bare Copper
Shield	Unshielded
Jacket	PVC
Approvals	
NEC	CM or CMR
CEC	CM FT1 or CMR FT4
Nominal Impedance	100Ω
Temperature Rating	80°C

Applications:

- 100BaseTX
- 100BaseVG ANYLAN
- 155ATM
- 622ATM
- AES/EBU
- Digital Video, RS-422
- Gigabit Ethernet
- NTSC/PAL Component or Composite Video
- Premise Horizontal Cable
- CCTV UTP
- PTZ
- Pan/Tilt/Zoom



Part No.	Component Descriptions	Insulation Material	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Non-Plenum (NEC CM and CEC CM FT1)										
Category 5e										
1583A new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.008	0.20	.195	4.95	U-1000 1000 1640 3000	U-305 305 500 915	21.0 21.0 34.4 63.0	9.5 9.5 15.7 28.6
1500A new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.008	0.20	.200	5.08	A-1000 1000	A-305 305	26.0 23.0	11.8 10.4
Non-Plenum (NEC CMR and CEC CMR FT4)										
Category 5e										
1583R new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.007	0.18	.197	5.00	U-1000 1000 3000	U-305 305 915	22.0 22.0 63.0	10.0 10.0 28.6
1500R new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.007	0.18	.194	5.00	A-1000 1000	A-305 305	27.0 24.0	12.2 10.9
Category 6										
7881A new	4-Pair UTP 23 AWG Solid Bare Copper Cond.	Polyolefin	.010	0.18	.235	5.97	A-1000 1000	A-305 305	33.0 30.0	15.0 13.6

UTP = Unshielded Twisted Pair

Refer to **www.belden.com** for jacket colors and put-ups.

Color Code Chart

Pair No.	Color Combinations
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security UTP Cable

CCTV Fixed and PTZ Applications
Plenum-Rated

NEW GENERATION®

Plenum-Rated
CMP FT6 Rated

Product Description

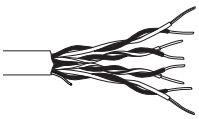
Solid bare copper conductors, unshielded twisted pairs, FEP Teflon® insulation, Flamarrest® jacket with rip cord. Sequential footage marking every two feet.

Specifications

Conductor	Solid Bare Copper
Shield	Unshielded
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Nominal Impedance	100Ω
Temperature Rating	75°C

Applications:

- 100BaseTX
- 100BaseVG ANYLAN
- 155ATM
- 622ATM
- AES/EBU
- Digital Video, RS-422
- Gigabit Ethernet
- NTSC/PAL Component or Composite Video
- Premise Horizontal Cable
- CCTV UTP
- Pan/Tilt/Zoom (PTZ)



Part No.	Component Descriptions	Insulation Material	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Plenum-Rated (NEC CMP and CEC CMP FT6)										
Category 5e										
1585A new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	FEP Teflon	.007	0.18	.195	4.95	U-1000 1000 3000	U-305 305 915	23.0 24.0 69.0	10.4 10.9 31.3
1501A new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	FEP Teflon	.008	0.20	.195	4.95	A-1000 1000	A-305 305	26.0 23.0	11.8 10.4
Category 6										
7882A new	4-Pair UTP 23 AWG Solid Bare Copper Cond.	FEP Teflon	.009	0.23	.224	5.69	A-1000 1000	A-305 305	32.0 29.0	14.5 13.2

UTP = Unshielded Twisted Pair

Refer to **www.belden.com** for jacket colors and put-ups.

Color Code Chart

Pair No.	Color Combinations
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

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Pan/Tilt/Zoom Banana Peel® Composite

CCTV plus Audio or Power or Pan and Tilt CCTV Control Applications
Riser-Rated

NEW GENERATION®

Composite Coax, Pair and Multi-Conductors
CMR/CMG FT4 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductor, gas-injected foam high-density polyethylene insulation, bare copper braid shield (95% coverage), Black PVC jacket.

(1) Pair: 23 AWG solid bare copper conductors, polyolefin insulation, Blue PVC jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

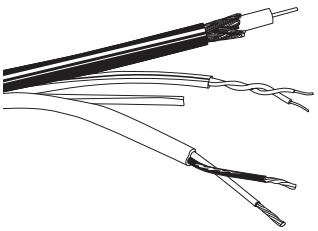
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, PVC insulation, White flame-retardant PVC jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Unshielded
Power	Unshielded
Component Jackets	PVC
Overall Jacket	None
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- CCTV plus Control and Power
- Pan, Tilt and Zoom CCTV Control



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD Inch	Component Nom. OD mm	Overall Nom. OD Inch	Overall Nom. OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg
Composite (NEC CMR and CEC CMG FT4)										
RG-59/U 20 AWG Coax • Cat. 5e 23 AWG Pair • 18 AWG Cond.										
500PTZ new	(1) Coax: RG-59/U 20 AWG (solid) Bare Copper Cond.	Gas-injected Foam HDPE, Bare Copper Braid Shield (95% coverage)	.227	5.57	.411	10.4	500 1000	152 305	38.5 71.0	17.5 32.3
	(1) 1-Pair 23 AWG (solid) Bare Copper Cond.	Polyolefin, Unshielded	.118	3.00						
	(1) 2-Cond. 18 AWG Stranded (7x26) Bare Copper Cond.	PVC, Unshielded	.171	4.34						

HDPE = High-density Polyethylene

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax, RG-59/U, 20 AWG, 95% Braid
Blue	1/P, 23 AWG, Unshielded
White	2/C, 18 AWG, Unshielded

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Pan/Tilt/Zoom Banana Peel® Composite

CCTV plus Audio or Power or Pan and Tilt CCTV Control Applications
Plenum-Rated

NEW GENERATION®

Composite Coax, Pair and Multi-Conductors

CMP FT6 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductor, Foam Perfluoroalkoxy (FPFA) insulation, bare copper braid shield (95% coverage), Black Flamarrest® jacket.

(1) Pair: 23 AWG solid bare copper conductors, FEP insulation, Blue Flamarrest jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

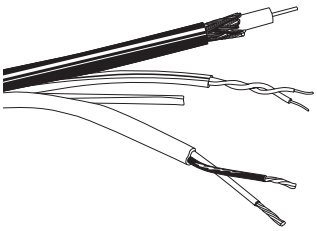
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, Flamarrest insulation, White Flamarrest jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Unshielded
Power	Unshielded
Component Jackets	Flamarrest
Overall Jacket	None
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- CCTV plus Control and Power
- Pan, Tilt and Zoom CCTV Control



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD Inch	Component Nom. OD mm	Overall Nom. OD Inch	Overall Nom. OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg
Plenum-rated Composite (NEC CMP and CEC CMP FT6)										
RG-59/U 20 AWG Coax • Cat. 5e 23 AWG Pair • 18 AWG Cond.										
600PTZ new	(1) Coax: RG-59/U 20 AWG (solid) Bare Copper Cond.	FPFA, Bare Copper Braid Shield (95% coverage)	.193	4.90	.351	8.9	500 1000	152 305	38.5 71.0	17.5 32.2
	(1) 1-Pair 23 AWG (solid) Bare Copper Cond.	FEP, Unshielded	.116	2.95						
	(1) 2-Cond. 18 AWG Stranded (7x26) Bare Copper Cond.	Flamarrest, Unshielded	.158	4.01						

FEP = Fluorinated Ethylene Propylene • FPFA = Foam Perfluoroalkoxy

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax, RG-59/U, 20 AWG, BC Braid (95%)
Blue	1/P, 23 AWG, Unshielded
White	2/C, 18 AWG, Unshielded

견적문의 Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Pan/Tilt/Zoom Banana Peel® Composite

CCTV plus Audio or Power or Pan and Tilt CCTV Control Applications
Riser-Rated

NEW GENERATION®

Composite Coax, Pair and Multi-Conductors
CMR/CMG FT4 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductor, gas-injected foam high-density polyethylene insulation, bare copper braid shield (95% coverage), Black PVC jacket.

(1) Pair: 22 AWG stranded (7x30) bare copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), Blue PVC jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

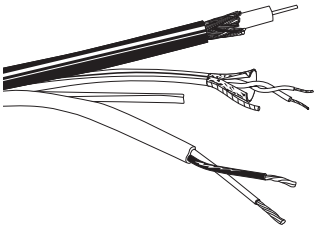
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, PVC insulation, White flame-retardant PVC jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Aluminum/Polyester
Power	Unshielded
Component Jackets	PVC
Overall Jacket	None
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- CCTV plus Control and Power
- Pan, Tilt and Zoom CCTV Control



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD		Overall Nom. OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Composite (NEC CMR and CEC CMG FT4)										
RG-59/U 20 AWG Coax • Cat. 5e 22 AWG Pair • 18 AWG Cond.										
501PTZ new	(1) Coax: RG-59/U 20 AWG (solid) BC Cond.	Gas-injected Foam HDPE, BC Braid Shield (95% coverage)	.227	5.57	.419	10.6	500 1000	152 305	41.0 76.0	18.6 34.5
	(1) 1-Pair 22 AWG (7x30) BC Cond.	Polyolefin, Beldfoil Shield (100% coverage)	.177	4.50						
	(1) 2-Cond. 18 AWG Stranded (7x26) BC Cond.	PVC, Unshielded	.171	4.34						

BC = Bare Copper • HDPE = High-density Polyethylene

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax: RG-59/U, 20 AWG, BC Braid Shield
Blue	1/P, 22 AWG, Beldfoil Shield
White	2/C, 18 AWG, Unshielded

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Pan/Tilt/Zoom Banana Peel® Composite

CCTV plus Audio or Power or Pan and Tilt CCTV Control Applications
Plenum-Rated

NEW GENERATION®

Composite Coax, Pair and Multi-Conductors

CMP FT6 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductor, Foam Perfluoroalkoxy (FPFA) insulation, bare copper braid shield (95% coverage), Black Flamarrest® jacket.

(1) Pair: 22 AWG stranded (7x30) bare copper conductors, FEP insulation, Beldfoil® shield (100% coverage), Blue Flamarrest jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

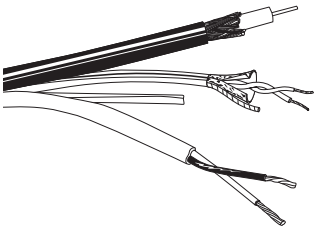
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, Flamarrest insulation, White Flamarrest jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Aluminum/Polyester
Power	Unshielded
Component Jackets	Flamarrest
Overall Jacket	None
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- CCTV plus Control and Power
- Pan, Tilt and Zoom CCTV Control



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD Inch	Component Nom. OD mm	Overall Nom. OD Inch	Overall Nom. OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg
Plenum-rated Composite (NEC CMP and CEC CMP FT6)										
RG-59/U 20 AWG Coax • Cat. 5e 22 AWG Pair • 18 AWG Cond.										
601PTZ new	(1) Coax: RG-59/U 20 AWG (solid) BC Cond.	FPFA, BC Braid Shield (95% coverage)	.193	4.90	.351	8.9	500 1000	152 305	40.0 73.0	18.2 33.2
	(1) 1-Pair 22 AWG (7x30) BC Cond.	FEP, Beldfoil Shield (100% coverage)	.116	2.95						
	(1) 2-Cond. 18 AWG Stranded (7x26) BC Cond.	Flamarrest, Unshielded	.158	4.01						

BC = Bare Copper • FEP = Fluorinated Ethylene Propylene • FPFA = Foam Perfluoroalkoxy

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax: RG-59/U, 20 AWG, BC Braid Shield
Blue	1/P, 22 AWG, Beldfoil Shield
White	2/C, 18 AWG, Unshielded

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Pan/Tilt/Zoom Banana Peel® Composite

CCTV plus Audio or Power or Pan and Tilt CCTV Control Applications
Riser-Rated

NEW GENERATION®

Composite Coax, Pair and Multi-Conductors

CMR/CMG FT4 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductor, gas-injected foam high-density polyethylene insulation, bare copper braid shield (95% coverage), Black PVC jacket.

(1) Pair: 18 AWG stranded (19x30) bare copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), Blue PVC jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

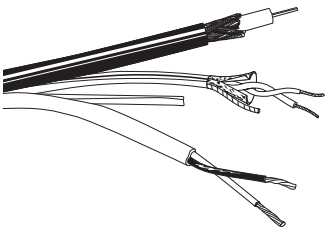
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, PVC insulation, White flame-retardant PVC jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Aluminum/Polyester
Power	Unshielded
Component Jackets	PVC
Overall Jacket	None
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- CCTV plus Control and Power
- Pan, Tilt and Zoom CCTV Control



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD Inch	Component Nom. OD mm	Overall Nom. OD Inch	Overall Nom. OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg
Composite (NEC CMR and CEC CMG FT4)										
RG-59/U 20 AWG Coax • Cat. 5e 18 AWG Pair • 18 AWG Cond.										
502PTZ new	(1) Coax: RG-59/U 20 AWG (solid) BC Cond.	Gas-injected Foam HDPE, BC Braid Shield (95% coverage)	.227	5.57	.451	11.5	500 1000	152 305	50.0 94.0	22.7 42.6
	(1) 1-Pair 18 AWG (19x30) BC Cond.	Polyolefin, Beldfoil Shield (100% coverage)	.219	5.56						
	(1) 2-Cond. 18 AWG Stranded (7x26) BC Cond.	PVC, Unshielded	.171	4.34						

BC = Bare Copper • HDPE = High-density Polyethylene

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax: RG-59/U, 20 AWG, BC Braid Shield
Blue	1/P, 18 AWG, Beldfoil Shield
White	2/C, 18 AWG, Unshielded

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Pan/Tilt/Zoom Banana Peel® Composite

CCTV plus Audio or Power or Pan and Tilt CCTV Control Applications
Plenum-Rated

NEW GENERATION®

Composite Coax, Pair and Multi-Conductors

CMP FT6 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductors, Foam Perfluoroalkoxy (FPFA) insulation, bare copper braid shield (95% coverage), Black Flamarrest® jacket.

(1) Pair: 18 AWG stranded (19x30) bare copper conductor, FEP insulation, Beldfoil® shield (100% coverage), Blue Flamarrest jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

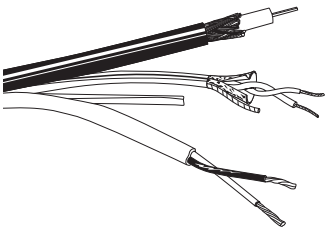
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, Flamarrest insulation, White Flamarrest jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Aluminum/Polyester
Power	Unshielded
Component Jackets	Flamarrest
Overall Jacket	None
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- CCTV plus Control and Power
- Pan, Tilt and Zoom CCTV Control



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD		Overall Nom. OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Plenum-rated Composite (NEC CMP and CEC CMP FT6)										
RG-59/U 20 AWG Coax • Cat. 5e 18 AWG Pair • 18 AWG Cond.										
602PTZ new	(1) Coax: RG-59/U 20 AWG (solid) BC Cond.	FPFA, BC Braid Shield (95% coverage)	.193	4.90	.363	9.2	500 1000	152 305	42.5 79.0	19.3 35.8
	(1) 1-Pair 18 AWG (19x30) BC Cond.	FEP, Beldfoil Shield (100% coverage)	.150	3.81						
	(1) 2-Cond. 18 AWG Stranded (7x26) BC Cond.	Flamarrest, Unshielded	.158	4.01						

BC = Bare Copper • FEP = Fluorinated Ethylene Propylene • FPFA = Foam Perfluoroalkoxy

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax: RG-59/U, 20 AWG, BC Braid Shield
Blue	1/P, 18 AWG, Beldfoil Shield
White	2/C, 18 AWG, Unshielded

US Patent 7,049,523

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Security Coaxial Cable

CATV and MATV Applications
Commercial or Schlage Systems

NEW GENERATION®

Commercial and Schlage Coax

CM FT1 Rated

Product Description

Bare copper conductor, foam polyolefin insulation, foil plus braid shield(s) as indicated, Black PVC jacket. Sequential footage marking every two feet.

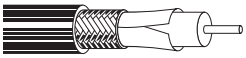
Specifications

Conductor	Bare Copper
Insulation	FPO
Shield	
Coax	Duofoil® + Aluminum Braid(s)
Schlage	Duobond® + Aluminum Braid(s)
Jacket	PVC
Approvals	
NEC	CM
CEC	CM FT1
NEC Articles	820
Nominal Impedance	75Ω
Temperature Rating	75°C

Applications

- CATV
- MATV

Duofoil Shield



Duobond Shield (Schlage Systems)



Quad Shield



Part No.	AWG	Stranding and Conductor	Shield/ Braid Coverage	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
				Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Coax (NEC CM and CEC CM FT1)											
Series 6 • RG-6 Type											
5339B5*	18	solid BC	Duofoil + 60% AL braid	.180	4.57	.266	6.76	U-500	U-152	17.5	7.9
								500	152	15.5	7.0
								U-1000	U-305	34.0	15.4
								1000	305	35.0	15.9
5339Q5*	18	solid BC	Quad**	.180	4.57	.298	7.57	U-500	U-152	19.0	8.6
								U-1000	U-305	36.0	16.3
								1000	305	36.0	16.3
Schlage Coax (NEC CM and CEC CM FT1)											
Series 6 • RG-6 Type											
5399B5	18	solid BC	Duobond + 60% AL braid	.180	4.50	.270	6.86	U-1000	U-305	28.0	12.7
								1000	305	29.0	13.2

AL = Aluminum • BC = Bare Copper

* Also available in White.
** Quad Shield = Duofoil tape + 60% aluminum braid + Duofoil tape + 40% aluminum braid.

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Security Coaxial Cable

Commercial CATV or MATV Applications
Plenum-Rated

NEW GENERATION®

Plenum-Rated Coax

CMP FT6 Rated

Product Description

Solid bare copper conductor. Foam FEP insulation. Foil plus aluminum braid shield(s) as indicated. Natural Flamarrest® jacket (except 6139B8 which is White fluorocopolymer). Sequential footage marking every two feet.

Specifications

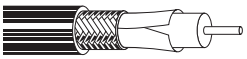
Conductor	Solid BC or BCCC
Insulation	Foam FEP
Shield	Duofoil® + Aluminum Braid(s)
Jacket	Flamarrest†
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	820
Nominal Impedance	75Ω
Temperature Rating	75°C

†6139B8 jacket is White fluorocopolymer.

Applications

- CATV
- MATV

Duofoil + Braid Shield



Quad Shield



Part No.	AWG	Stranding and Conductor	Shield/ Braid Coverage	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
				Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Plenum-Rated Coax (NEC CMP and CEC CMP FT6)											
Series 59 • RG-59 Type											
6439C8	20	solid BC	Duofoil + 80% AL braid	.135	3.43	.199	5.05	1000	305	20.0	9.1
6439Q8	20	solid BC	Quad*	.135	3.43	.223	5.66	U-1000	U-305	24.0	10.9
Series 6 • RG-6 Type											
633938	18	solid BC	Duofoil + 90% AL braid	.170	4.32	.233	5.92	U-500 500 U-1000 1000	U-152 152 U-305 305	15.0 15.0 29.0 29.0	6.8 6.8 13.2 13.2
6339Q8	18	solid BCCC	Quad*	.170	4.32	.248	6.30	U-1000 1000	U-305 305	30.0 32.0	13.6 14.5
Series 11 • RG-11 Type											
6139B8	14	solid BC	Duofoil + 60% AL braid	.274	6.96	.348	8.84	1000	305	66.0	30.0

AL = Aluminum • BC = Bare Copper • BCCC = Bare Copper Center Conductor

*Quad Shield: Duofoil tape + 60% copper braid + Duofoil tape + 40% copper braid.

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Security Coaxial Cable

Surveillance and CCTV Applications
Limited Combustible

NEW GENERATION®

Limited Combustible Coax

FHC 25/50 CMP

Product Description

Bare copper conductor, foam FEP insulation, bare copper braid shield (95% coverage). Black FEP jacket. Sequential footage marking every two feet.

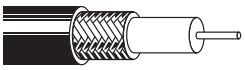
Specifications

Conductor	Bare Copper
Insulation	FFEP
Shield	Bare Copper Braid
Jacket	FEP
Approvals	
NEC	CMP FHC 25/50
NEC Articles	800
Nominal Impedance	75Ω
Temperature Rating	200°C

Applications

- CCTV
- Video Security Coax

Solid Conductor



Part No.	AWG	Stranding and Conductor	Shield/ Braid Coverage	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
				Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Limited Combustible Coax (CMP FHC 25/50)											
RG-59/U Type											
7986LC	20	solid	95%	.135	3.43	.193	4.90	500	152	17.0	7.7
new		BC	BC					1000	305	31.0	14.1
RG-6/U Type											
7985LC	18	solid	95%	.170	4.31	.228	5.79	500	152	22.0	10.0
new		BC	BC					1000	305	44.0	20.0

BC = Bare Copper • FEP = Fluorinated Ethylene Propylene

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

UTP CCTV Surveillance Cables

CCTV and PTZ Applications
Unshielded, Riser-Rated

NEW GENERATION®

Composite
Unshielded Multi-conductor
CMR/CMG FT4 Rated

Product Description

Data Pair: 24 or 23 AWG solid bare copper conductors, unshielded twisted pairs, polyolefin insulation.

Power Conductors: 16 AWG stranded (19x29) tinned copper conductors, unshielded, polypropylene insulation.

Overall: White or Black, flame-retardant PVC jacket.

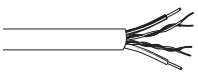
Specifications

Conductor	
Data Pair	Solid Bare Copper
Power	Stranded Tinned Copper
Shield	Unshielded
Jacket	F-R PVC
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Nominal Impedance	100Ω
Temperature Rating	75°C

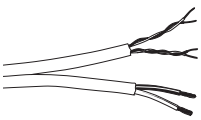
Applications:

- UTP-CCTV
- CCTV
- CCTV on UTP
- CCTV Video/Control
- Closed Circuit Television
- Pan/Tilt/Zoom (PTZ) Cameras
- Surveillance
- Video Over Twisted Pairs

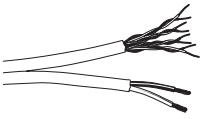
5284UE (Round Construction)



5284US (Siamese Construction)



5288US (Siamese Construction)



Part No.	Component Descriptions	Insulation Material	Insulation Nominal OD Inch	Insulation Nominal OD mm	Nominal OD Inch	Nominal OD mm	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg
Unshielded Composite (NEC CMR and CEC CMG FT4)										
Category 5e										
5284UE new	2-Pair UTP 23 AWG Solid Bare Copper Cond.	Polyolefin	.040	1.01	.233	5.92	500 1000	152 305	22.5 44.0	10.2 20.0
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	Polypropylene	.077	1.96						
5284US new	2-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.035	.89	.208 x .426	5.28 x 10.82	500 100	152 305	25.5 44.0	11.6 20.0
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	PVC	.080	2.03						
5288US* new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.035	.89	.198 x .424	5.03 x 10.77	500 1000	152 305	27.5 52.0	12.5 23.6
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	PVC	.080	2.03						

UTP = Unshielded Twisted Pair • F-R = Flame-retardant

*Special Construction available upon request.

Color Code Chart (Data Pair)

Pair No.	Color
1	Blue & White/Blue Stripe
2	Orange & White/Orange Stripe
3	Green & White/Green Stripe
4	Brown & White/Brown Stripe

Color Code Chart (Power)

Cond. No.	Color
1	Black
2	Red

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

UTP CCTV Surveillance Cables

CCTV and PTZ Applications
Unshielded, Plenum-Rated

NEW GENERATION®

Composite
Unshielded Multi-conductor
CMP Rated

Product Description

Data Pair: 24 or 23 AWG solid bare copper conductors, unshielded twisted pairs, FEP insulation.

Power Conductors: 16 AWG stranded (19x29) tinned copper conductors, unshielded, FEP or Flamarrest® insulation.

Overall: White or Black, Flamarrest jacket.

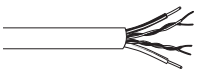
Specifications

Conductor	
Data Pair	Solid Bare Copper
Power	Stranded Tinned Copper
Shield	Unshielded
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP
NEC Articles	800
Nominal Impedance	100Ω
Temperature Rating	75°C

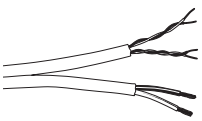
Applications:

- UTP-CCTV
- CCTV
- CCTV on UTP
- CCTV Video/Control
- Closed Circuit Television
- Pan/Tilt/Zoom (PTZ) Cameras
- Surveillance
- Video Over Twisted Pairs

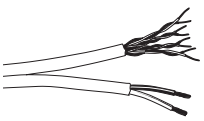
6284UE (Round Construction)



6284US (Siamese Construction)



6288US (Siamese Construction)



Part No.	Component Descriptions	Insulation Material	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Unshielded Composite (NEC CMP and CEC CMP)										
Category 5e										
6284UE new	2-Pair UTP 23 AWG Solid Bare Copper Cond.	FEP	.041	1.04	.220	5.59	500 1000	152 305	19.5 38.0	8.8 17.2
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	FEP	.077	1.96						
6284US new	2-Pair UTP 24 AWG Solid Bare Copper Cond.	FEP	.035	.89	.173 x .358	4.39 x 9.09	500 1000	152 305	26.0 50.0	11.8 22.7
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	Flamarrest	.077	1.96						
6288US new	4-Pair UTP 23 AWG Solid Bare Copper Cond.	FEP	.042	1.07	.222 x .450	5.64 x 11.43	500 1000	152 305	34.5 66.0	15.7 29.9
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	Flamarrest	.077	1.96						

FEP = Fluorinated Ethylene Propylene • UTP = Unshielded Twisted Pair

Color Code Chart (Data Pair)

Pair No.	Color
1	Blue & White/Blue Stripe
2	Orange & White/Orange Stripe
3	Green & White/Green Stripe
4	Brown & White/Brown Stripe

Color Code Chart (Power)

Cond. No.	Color
1	Black
2	Red

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

UTP CCTV Surveillance Cables

CCTV Fixed and PTZ Applications
Unshielded, Non-Plenum

NEW GENERATION®

Unshielded Twisted Pairs

CM FT1 or CMR Rated

Product Description

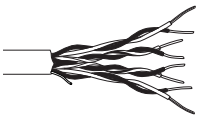
Solid bare copper conductors, unshielded twisted pairs, polyolefin insulation, PVC jacket with rip cord. Sequential footage marking every two feet.

Specifications

Conductor	Solid Bare Copper
Shield	Unshielded
Jacket	PVC
Approvals	
NEC	CM or CMR
CEC	CM FT1 or CMR FT4
Nominal Impedance	100Ω
Temperature Rating	80°C

Applications:

- 100BaseTX
- 100BaseVG ANYLAN
- 155ATM
- 622ATM
- AES/EBU
- Digital Video, RS-422
- Gigabit Ethernet
- NTSC/PAL Component or Composite Video
- Premise Horizontal Cable
- CCTV UTP
- PTZ
- Pan/Tilt/Zoom



Part No.	Component Descriptions	Insulation Material	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Unshielded Twisted Pairs (NEC CM and CEC CM FT1)										
Category 5e										
1583A new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.008	0.20	.195	4.95	U-1000 1000 1640 3000	U-305 305 500 915	21.0 21.0 34.4 63.0	9.5 9.5 15.7 28.6
1500A new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.008	0.20	.200	5.08	A-1000 1000	A-305 305	26.0 23.0	11.8 10.4
Unshielded Twisted Pairs (NEC CMR and CEC CMR FT4)										
Category 5e										
1583R new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.007	0.18	.197	5.00	U-1000 1000 3000	U-305 305 915	23.0 22.0 63.0	10.4 10.0 28.6
1500R new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.007	0.18	.194	5.00	A-1000 1000	A-305 305	27.0 24.0	12.2 10.9
Category 6										
7881A new	4-Pair UTP 23 AWG Solid Bare Copper Cond.	Polyolefin	.010	0.18	.235	5.97	A-1000 1000	A-305 305	33.0 30.0	15.0 13.6

UTP = Unshielded Twisted Pair

Refer to **www.belden.com** for jacket colors and put-ups.

Color Code Chart

Pair No.	Color Combinations
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

UTP CCTV Surveillance Cables

CCTV Fixed and PTZ Applications
Unshielded, Plenum-Rated

NEW GENERATION®

Unshielded Twisted Pairs

CMP FT6 Rated

Product Description

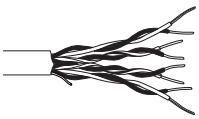
Solid bare copper conductors, unshielded twisted pairs, FEP Teflon® insulation, Flamarrest® jacket with rip cord. Sequential footage marking every two feet.

Specifications

Conductor	Solid Bare Copper
Shield	Unshielded
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Nominal Impedance	100Ω
Temperature Rating	75°C

Applications:

- 100BaseTX
- 100BaseVG ANYLAN
- 155ATM
- 622ATM
- AES/EBU
- Digital Video, RS-422
- Gigabit Ethernet
- NTSC/PAL Component or Composite Video
- Premise Horizontal Cable
- CCTV UTP
- Pan/Tilt/Zoom (PTZ)



Part No.	Component Descriptions	Insulation Material	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg
Unshielded Twisted Pairs (NEC CMP and CEC CMP FT6)										
Category 5e										
1585A new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	FEP Teflon®	.007	0.18	.195	4.95	U-1000 1000 3000	U-305 305 915	23.0 24.0 69.0	10.4 10.9 31.3
1501A new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	FEP Teflon	.008	0.20	.195	4.95	A-1000 1000	A-305 305	27.0 24.0	12.2 10.9
Category 6										
7882A new	4-Pair UTP 23 AWG Solid Bare Copper Cond.	FEP Teflon	.009	0.23	.224	5.69	A-1000 1000	A-305 305	34.0 31.0	15.4 14.1

UTP = Unshielded Twisted Pair

Refer to **www.belden.com** for jacket colors and put-ups.

Color Code Chart

Pair No.	Color Combinations
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Fire Alarm Cable

Commercial Applications
Unshielded, Power-Limited

NEW GENERATION®

Unshielded Multi-conductor

FPLR/CMG FT4 Rated

Product Description

Bare copper conductors, PVC insulation, conductors cabled together, Red PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	PVC
Jacket	PVC
Jacket Thickness	.015″ (.381mm)
Approvals	
NEC	FPLR
CEC (22–16 AWG only)	CMG FT4
California State Fire Marshall	
NEC Articles	760
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Fire Protection
- Alarm
- Signal
- Monitor/Detection
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC FPLR and CEC CMG FT4)										
22 AWG										
5522UL	4	solid	C-500 U-1000 1000	C-152 U-305 305	7.0 16.0 16.0	3.2 7.3 7.3	.010	.25	.125	3.18
5524UL	6	solid	C-500 U-1000	C-152 U-305	10.0 21.0	4.6 9.5	.010	.25	.168	4.27
18 AWG										
5320UL	2	solid	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	8.0 9.0 9.0 18.0 17.0	3.6 4.1 4.1 8.2 7.7	.010	.25	.151	3.84
5322UL	4	solid	C-250 C-500 U-500 U-1000 1000	C-76 C-152 U-152 U-305 305	7.0 14.0 15.5 30.0 30.0	3.2 6.0 7.0 13.6 13.6	.010	.25	.176	4.47
5324UL	6	solid	500 U-1000 1000	152 U-305 305	23.5 43.0 44.0	10.7 19.5 20.0	.010	.25	.212	5.38
5326UL	8	solid	1000	305	61.0	27.7	.010	.25	.230	5.84
5328UL	10	solid	1000	305	71.0	32.3	.010	.25	.272	6.91
5329UL	12	solid	1000	305	83.0	37.7	.010	.25	.281	7.14
16 AWG										
5220UL*	2	solid	500 U-1000 1000	152 U-305 305	13.0 24.0 25.0	5.9 10.9 11.4	.010	.25	.174	4.42
5222UL	4	solid	1000	305	45.0	20.4	.010	.25	.204	5.18
14 AWG										
5120UL*	2	solid	500 1000	152 305	19.0 38.0	8.6 17.3	.013	.33	.213	5.41
5122UL	4	solid	1000	305	70.0	31.8	.013	.33	.251	6.38
12 AWG										
5020UL	2	solid	1000	305	55.0	25.0	.013	.33	.247	6.27

*Also available in other jacket colors. Consult **www.belden.com**.

Color Code Chart

Cond. No.	Color
1	Black
2	Red
3	Brown
4	Blue
5	Orange
6	Yellow
7	Purple
8	Green
9	Red/Black
10	Red/White
11	Red/Green
12	Red/Blue

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Fire Alarm Cable

Commercial Applications
Shielded, Power-Limited

NEW GENERATION®

Shielded Multi-conductor
FPLR/CMG FT4 Rated

Product Description

Bare copper conductors, PVC insulation, conductors cabled together, Beldfoil® shield and drain wire, Red PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	PVC
Shield	Beldfoil
Jacket	PVC
Jacket Thickness	.015″ (.381mm)
Approvals	
NEC	FPLR
CEC (22–16 AWG only)	CMG FT4
California State Fire Marshall	
NEC Articles	760
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Fire Protection
- Alarm
- Signal
- Monitor/Detection
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits



Shorting Fold

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC FPLR and CEC CMG FT4)										
22 AWG										
5522FL	4	solid	C-500	C-152	9.0	4.1	.010	.25	.145	3.68
			U-1000	U-305	19.0	8.6				
			1000	305	19.0	8.6				
18 AWG										
5320FL*	2	solid	C-500	C-152	10.5	4.8	.010	.25	.155	3.94
			U-500	U-152	11.5	5.2				
			500	152	11.5	5.2				
			U-1000	U-305	22.0	10.0				
			1000	305	22.0	10.0				
5322FL	4	solid	C-500	C-152	15.5	7.0	.010	.25	.170	4.32
			500	152	16.5	7.5				
			U-1000	U-305	32.0	14.5				
			1000	305	34.0	15.4				
16 AWG										
5220FL*	2	solid	1000	305	29.0	13.2	.010	.25	.178	4.52
5222FL	4	solid	1000	305	50.0	22.7	.010	.25	.208	5.28
14 AWG										
5120FL*	2	solid	500	152	22.0	10.0	.013	.33	.217	5.51
			1000	305	43.0	19.5				
5122FL	4	solid	1000	305	79.0	35.9	.013	.33	.255	6.48
12 AWG										
5020FL	2	solid	1000	305	60.0	27.2	.013	.33	.251	6.38

*Also available in other jacket colors. Consult **www.belden.com**.

Color Code Chart

Cond. No.	Color
1	Black
2	Red
3	Brown
4	Blue

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Fire Alarm Cable

Commercial Applications, Addressable Systems
Unshielded or Shielded, Power-Limited, Mid-Capacitance

NEW GENERATION®

Unshielded Multi-conductor

FPL Rated

Product Description

Bare copper conductors, foam high-density polyethylene insulation, cabled together, Red PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: Black, Red.

Shielded Multi-conductor

FPL Rated

Product Description

Bare copper conductors, foam high-density polyethylene insulation, cabled together, Beldfoil® shield tape (foil side out), Red PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	FHDPE
Shield (where applicable)	Beldfoil
Jacket	PVC
Jacket Thickness	.033″ (.838mm)
Approvals	
NEC	FPL
California State Fire Marshall	
NEC Articles	760
Voltage Rating	300V
Temperature Rating	75°C
Nominal Capacitance*	
Unshielded†	13 pF/ft.
Shielded††	20–36 pF/ft.

*Capacitance between conductors.
†60% lower capacitance than cables on page 20.55
††60% lower capacitance than cables on page 20.56

Applications

- Addressable Fire Systems
- Data Circuits
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Color Code Chart

Cond. No.	Color
1	Black
2	Red
3	Brown
4	Blue

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC FPL)										
18 AWG										
5320UJ	2	solid	U-1000	U-305	22.0	10.0	.015	.38	.206	5.23
16 AWG										
5220UJ	2	solid	500	152	16.0	7.3	.015	.38	.230	5.84
			1000	305	32.0	14.5				
Shielded Multi-conductor (NEC FPL)										
18 AWG										
5320FJ	2	solid	U-1000	U-305	27.0	12.3	.015	.38	.211	5.36
			1000	305	28.0	12.7				
5322FJ	4	solid	1000	305	43.0	19.5	.015	.38	.240	6.10
16 AWG										
5220FJ	2	solid	500	152	18.0	8.2	.015	.38	.235	5.97
			U-1000	U-305	35.0	15.9				
			1000	305	37.0	16.8				
5222FJ	4	solid	1000	305	59.0	26.8	.015	.38	.269	6.83
14 AWG										
5120FJ	2	solid	1000	305	49.0	22.3	.020	.51	.279	7.09
12 AWG										
5020FJ	2	solid	1000	305	69.0	31.3	.020	.51	.317	8.05

Unshielded



Shielded



Shorting Fold

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Fire Alarm Cable

NPLF Systems

Unshielded or Shielded, Non-Power-Limited Signaling Cable

NEW GENERATION®

Unshielded Multi-conductor

NPLF Rated
150V Max. Per NEC Article 760
Indoor (Non-conduit per NEC)

Product Description

Bare copper conductors, PVC/Nylon insulation, cabled together, Red PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Shielded Multi-conductor

NPLF Rated
150V Max. Per NEC Article 760
Indoor (Non-conduit per NEC)

Product Description

Bare copper conductors, PVC/Nylon insulation, cabled together, Beldfoil® shield tape (aluminum side out) plus drain wire, Red PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	PVC/Nylon
Insulation Thickness	.021″ (.533mm)
Shield (where applicable)	Beldfoil
Jacket	PVC
Approvals	
NEC	NPLF
NEC Articles	760
Voltage Rating	150V
Temperature Rating	75°C

Applications

- Fire Alarm
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Color Code Chart

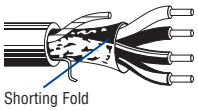
Cond. No.	Color
1	Black
2	Red
3	Brown
4	Blue

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC NPLF)										
18 AWG										
5320UN	2	solid	500 1000	152 305	14.0 31.0	6.4 14.1	.037	.94	.239	6.07
5322UN	4	solid	500 1000	152 305	28.0 53.0	12.7 24.0	.042	1.07	.283	7.19
16 AWG										
5220UN	2	solid	500 1000	152 305	22.0 40.0	10.0 18.1	.037	.94	.262	6.65
5222UN	4	solid	1000	305	71.0	32.3	.042	1.07	.311	7.90
14 AWG										
5120UN	2	solid	500 1000	152 305	28.5 53.0	13.0 24.1	.042	1.07	.299	7.59
Shielded Multi-conductor (NEC NPLF)										
18 AWG										
5320FN	2	solid	500 1000	152 305	15.5 35.0	7.0 15.9	.037	.94	.243	6.17
5322FN	4	solid	500 1000	152 305	31.0 57.0	14.1 25.9	.042	1.07	.287	7.29
16 AWG										
5220FN	2	solid	500 1000	152 305	23.5 45.0	10.7 20.5	.037	.94	.266	6.76
5222FN	4	solid	1000	305	76.0	34.5	.042	1.07	.315	8.00
14 AWG										
5120FN	2	solid	500 1000	152 305	32.0 61.0	14.5 27.7	.042	1.07	.303	7.70
5122FN	4	solid	500 1000	152 305	50.5 102.0	23.0 46.4	.042	1.07	.348	8.84
12 AWG										
5020FN	2	solid	500 1000	152 305	43.0 83.0	19.5 37.7	.042	1.07	.337	8.56

Unshielded



Shielded



Shorting Fold

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Fire Alarm Cable

Commercial Applications
Unshielded or Shielded, Plenum-Rated, Power-Limited

NEW GENERATION®

Unshielded or Shielded Multi-conductor
FPLP Rated

Product Description

Bare copper conductors, Flamarrest® insulation, cabled together, Red Flamarrest jacket with rip cord. Shielded version has overall Beldfoil® shield tape (foil side out) and drain wire. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Shield (where applicable)	Beldfoil
Jacket	Flamarrest
Jacket Thickness	.015″ (.381mm)
Approvals	
NEC	FPLP
California State Fire Marshall	
NEC Articles	760
Voltage Rating	300V
Temperature Rating	75°C

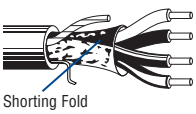
Applications

- Fire Protection
- Alarm
- Signal
- Monitor/Detection
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Unshielded



Shielded



Color Code Chart

Cond. No.	Color	Cond. No.	Color
1	Black	6	Yellow
2	Red	7	Purple
3	Brown	8	Green
4	Blue	9	Red/Black
5	Orange	10	Red/White

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC FPLP)										
22 AWG										
6522UL	4	solid	U-1000 1000	U-305 305	17.0 16.0	7.7 7.3	.009	.23	.136	3.45
6524UL	6	solid	C-500 U-1000 1000	C-152 U-305 305	10.5 22.0 22.0	4.8 10.0 10.0	.009	.23	.162	4.12
18 AWG										
6320UL*	2	solid	C-500 U-500 U-1000 1000	C-152 U-152 U-305 305	8.0 9.0 18.0 17.0	3.6 4.1 8.2 7.7	.010	.25	.151	3.84
6321UL	3	solid	1000	305	28.0	12.7	.010	.25	.160	4.06
6322UL	4	solid	C-250 C-500 1000	C-76 C-152 305	7.2 14.5 31.0	3.3 6.6 14.1	.010	.25	.183	4.64
6324UL	6	solid	U-1000 1000	U-305 305	44.0 46.0	20.0 20.9	.010	.25	.211	5.36
6326UL	8	solid	1000	305	63.0	28.6	.010	.25	.230	5.84
6328UL	10	solid	1000	305	73.0	33.1	.010	.25	.272	6.91
16 AWG										
6220UL*	2	solid	C-500 500 U-1000 1000	C-152 152 U-305 305	12.0 12.5 25.0 26.0	5.4 5.7 11.4 11.8	.010	.25	.174	4.42
6222UL	4	solid	500 1000	152 305	24.5 47.0	11.1 21.3	.010	.25	.204	5.18
14 AWG										
6120UL*	2	solid	500 1000	152 305	19.0 38.0	8.6 17.3	.011	.28	.205	5.21
6122UL	4	solid	500 1000	152 305	35.5 70.0	16.1 31.8	.011	.28	.241	6.12
12 AWG										
6020UL	2	solid	1000	305	59.0	26.8	.011	.28	.239	6.07
Shielded Multi-conductor (NEC FPLP)										
18 AWG										
6320FL*	2	solid	C-500 U-1000 1000	C-152 U-305 305	10.5 22.0 22.0	4.8 10.0 10.0	.010	.25	.158	4.01
6322FL	4	solid	1000	305	36.0	16.4	.010	.25	.183	4.65
16 AWG										
6220FL*	2	solid	C-500 1000	C-152 305	14.5 31.0	6.6 14.1	.010	.25	.181	4.60
6222FL	4	solid	1000	305	58.0	26.3	.010	.25	.211	5.36
14 AWG										
6120FL*	2	solid	500 1000	152 305	23.5 45.0	10.7 20.4	.011	.28	.209	5.31
6122FL	4	solid	500 1000	152 305	42.0 77.0	19.1 35.0	.011	.28	.245	6.22
12 AWG										
6020FL	2	solid	500 1000	152 305	30.5 61.0	13.9 27.7	.011	.28	.243	6.17

*Also available in other jacket colors. Consult **www.belden.com**.

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Fire Alarm Cable

Commercial Applications, Addressable Systems
Unshielded and Shielded, Plenum-Rated, Power-Limited, Mid-Capacitance

NEW GENERATION®

Unshielded Multi-conductor
FPLP Rated

Product Description

Bare copper conductors, FEP insulation, cabled together, Red Flamarrest® jacket with rip cord. Sequential footage marking every two feet.

Color Code: Black, Red.

Shielded Multi-conductor
FPLP Rated

Product Description

Bare copper conductors, FEP insulation, cabled together, Beldfoil® shield tape (aluminum side out) with tinned copper drain wire, Red Flamarrest jacket with rip cord. Sequential footage marking every two feet.

Color Code: Black, Red.

Specifications

Conductor	Bare Copper
Insulation	FEP
Shield (where applicable)	Beldfoil
Jacket	Flamarrest
Jacket Thickness	.015″ (.381mm)
Approvals	
NEC	FPLP
California State Fire Marshall	
NEC Articles	760
Voltage Rating	300V
Temperature Rating	75°C
Nominal Capacitance*	
Unshielded†	26 pF/ft.
Shielded††	26–31 pF/ft.

*Capacitance between conductors.
†20% lower capacitance than cables on page 13.39
††60% lower capacitance than cables on page 13.39

Applications

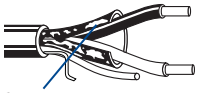
- Addressable Fire Systems
- Data Circuits
- Monitor/Detection
- Control Circuits
- Initiating Circuits
- Notification Circuits

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC FPLP)										
18 AWG										
6320UJ	2	solid	1000	305	16.0	7.3	.007	.18	.138	3.51
16 AWG										
6220UJ	2	solid	1000	305	24.0	10.9	.007	.18	.162	4.11
14 AWG										
6120UJ	2	solid	1000	305	32.0	14.5	.007	.18	.186	4.72
Shielded Multi-conductor (NEC FPLP)										
18 AWG										
6320FK	2	solid	500 U-1000 1000	152 U-305 305	14.0 28.0 27.0	6.4 12.7 12.2	.018	.46	.185	4.70
16 AWG										
6220FK	2	solid	1000	305	37.0	16.8	.018	.46	.210	5.33

Unshielded



Shielded



Shorting Fold

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Circuit Integrity in Conduit (CIC) Safe-T-Line® Cable

Commercial Applications, Addressable Systems
Unshielded, Riser-Rated

NEW GENERATION®

Unshielded Multi-conductor

FPLR-CIC Rated

Product Description

Bare copper conductors, ceramifiable silicone rubber insulation, Red FRPE (Low-Smoke, Non-Halogen) jacket. Sequential footage marking every two feet.

Color Code: Black, Red.

Specifications

Conductor	Bare Copper
Insulation	Silicone Rubber
Shield	Unshielded
Jacket	FRPE
Jacket Thickness	.035″ (.889mm)
Approvals NEC	FPLR-CIC
NEC Articles	760
Voltage Rating	300V
Temperature Rating	105°C

Note: 2-conductor versions are color-coded black and red.
4 or more conductor versions are all black and numbered.

Applications

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from Attack by Fire

Stranded



Solid



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC FPLR-CIC)										
16 AWG										
5200UZ new	2	7	1000	305	68.0	30.9	.056	1.42	.37	9.40
5220UZ new	2	solid	1000	305	64.0	29.0	.056	1.42	.35	8.89
14 AWG										
5100UZ new	2	7	1000	305	87.0	39.5	.056	1.42	.40	10.16
5120UZ new	2	solid	1000	305	79.0	35.8	..056	1.42	.38	9.65
12 AWG										
5000UZ new	2	7	1000	305	108.0	50.0	.056	1.42	.37	9.40
5020UZ new	2	solid	1000	305	101.0	45.8	.056	1.42	.42	10.67

FRPE = Flame-retardant Polyethylene

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Circuit Integrity in Conduit (CIC) Safe-T-Line® Cable

Commercial Applications, Addressable Systems
Shielded, Riser-Rated

NEW GENERATION®

Shielded Multi-conductor
FPLR-CIC Rated

Product Description

Bare copper conductors, ceramifiable silicone rubber insulation, overall Beldfoil® Shield (100% coverage), tinned copper drain wire, Red FRPE (Low-Smoke, Non-Halogen) jacket, Sequential footage marking every two feet.

Color Code: Black, Red. (see note)

Specifications

Conductor	Bare Copper
Insulation	Silicone Rubber
Shield	Beldfoil
Jacket	FRPE
Jacket Thickness	.035″ (.889mm)
Approvals	
NEC	FPLR-CIC
NEC Articles	760
Voltage Rating	300V
Temperature Rating	105°C

Note: 2-conductor versions are color-coded black and red.
4 or more conductor versions are all black and numbered.

Applications

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from Attack by Fire

Stranded



Solid



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC FPLR-CIC)										
16 AWG										
5200FZ new	2	7	1000	305	75.0	34.0	.056	1.42	.37	9.40
5220FZ new	2	solid	1000	305	71.0	32.2	.056	1.42	.36	9.14
5222FZ new	4	solid	1000	305	108.0	50.0	.056	1.42	.41	10.41
14 AWG										
5100FZ new	2	7	1000	305	97.0	44.0	.056	1.42	.41	10.41
5120FZ new	2	solid	1000	305	90.0	40.8	..056	1.42	.38	9.65
12 AWG										
5000FZ new	2	7	1000	305	122.0	55.3	.056	1.42	.44	11.18
5020FZ new	2	solid	1000	305	117.0	53.1	.056	1.42	.42	10.67
5022FZ new	4	solid	1000	305	187.0	84.8	.056	1.42	.48	12.19

FRPE = Flame-retardant Polyethylene

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Circuit Integrity (CI) Safe-T-Line® Cable

Commercial Applications, Addressable Systems
Unshielded, Riser-Rated

NEW GENERATION®

Unshielded Multi-conductor

FPLR-CI Rated

Product Description

Solid bare copper conductors, ceramifiable silicone rubber insulation, Red FRPE (Low-Smoke, Non-Halogen) jacket. Sequential footage marking every two feet.

Color Code: Black, Red. (see note)

Specifications

Conductor	Bare Copper
Insulation	Silicone Rubber
Shield	Unshielded
Jacket	FRPE
Jacket Thickness	.045″ (1.143mm)
Approvals	
NEC	FPLR-CI
California State Fire Marshall	
NEC Articles	760
Voltage Rating	300V
Temperature Rating	105°C
Nominal Capacitance	
18 AWG	17 pF/ft.
16 AWG	19 pF/ft.
14 AWG	21 pF/ft.
12 AWG	23 pF/ft.

Note: 2-conductor versions are color-coded black and red.
4 or more conductor versions are all black and numbered.

Applications

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from Attack by Fire



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC FPLR-CI)										
18 AWG										
5320UM new	2	solid	1000	305	47.0	21.3	.034	.86	.31	7.87
5322UM new	4	solid	1000	305	73.0	33.1	.034	.86	.35	8.89
5324UM new	6	solid	1000	305	100.0	45.4	.034	.86	.42	10.67
5326UM new	8	solid	1000	305	123.0	55.8	.034	.86	.45	11.43
16 AWG										
5220UM new	2	solid	1000	305	59.0	26.8	.034	.86	.33	8.38
5222UM new	4	solid	1000	305	97.0	44.0	.034	.86	.38	9.65
14 AWG										
5120UM new	2	solid	1000	305	73.0	33.1	.034	.86	.36	9.14
5122UM new	4	solid	1000	305	123.0	55.8	.034	.86	.41	10.41
12 AWG										
5020UM new	2	solid	1000	305	96.0	43.6	.034	.86	.39	9.91
5022UM new	4	solid	1000	305	167.0	75.8	.034	.86	.45	11.43

FRPE = Flame-retardant Polyethylene

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Circuit Integrity (CI) Safe-T-Line® Cable

Commercial Applications, Addressable Systems
Shielded, Riser-Rated

NEW GENERATION®

Shielded Multi-conductor
FPLR-CI Rated

Product Description

Bare copper conductors, ceramifiable silicone rubber insulation, Beldfoil® shield (100% coverage), Red FRPE (Low-Smoke, Non-Halogen) jacket, drain wire. Sequential footage marking every two feet.

Color Code: Black, Red.

Specifications

Conductor	Bare Copper
Insulation	Silicone Rubber
Shield	Beldfoil
Jacket	FRPE
Jacket Thickness	.045″ (1.143mm)
Approvals	
NEC	FPLR-CI
California State Fire Marshall	
NEC Articles	760
Voltage Rating	300V
Temperature Rating	105°C
Nominal Capacitance	
18 AWG	27 pF/ft.
16 AWG	31 pF/ft.
14 AWG	33 pF/ft.
12 AWG	37 pF/ft.*
	40 pF/ft.**

*5020FM and 5022FM
**5000FM and 5002FM

Note: 2-conductor versions are color-coded black and red. 4 or more conductor versions are all black and numbered.

Applications

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from Attack by Fire



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC FPLR-CI)										
18 AWG										
5320FM new	2	solid	1000	305	50.0	22.7	.034	.86	.31	7.87
5322FM new	4	solid	1000	305	78.0	35.4	.034	.86	.36	9.14
5324FM new	6	solid	1000	305	106.0	48.1	.034	.86	.42	10.67
5326FM new	8	solid	1000	305	129.0	58.5	.034	.86	.46	11.61
5300FM new	2	(7x26)	1000	305	57.0	25.9	.034	.86	.32	8.13
5302FM new	4	(7x26)	1000	305	103.0	46.7	.034	.86	.37	9.40
5304FM new	6	(7x26)	1000	305	122.0	55.3	.034	.86	.44	11.18
5306FM new	8	(7x26)	1000	305	148.0	67.1	.034	.86	.47	11.94
16 AWG										
5220FM new	2	solid	1000	305	66.0	29.9	.034	.86	.33	8.38
5222FM new	4	solid	1000	305	103.0	46.7	.034	.86	.38	9.65
5200FM new	2	(7x24)	1000	305	71.0	32.2	.034	.86	.35	8.89
5202FM new	4	(7x24)	1000	305	112.0	50.8	.034	.86	.40	10.16
14 AWG										
5120FM new	2	solid	1000	305	84.0	38.1	.034	.86	.36	9.14
5122FM new	4	solid	1000	305	133.0	60.3	.034	.86	.41	10.41
5100FM new	2	(7x22)	1000	305	93.0	42.2	.034	.86	.38	9.65
5102FM new	4	(7x22)	1000	305	149.0	67.6	.034	.86	.44	11.18
12 AWG										
5020FM new	2	solid	1000	305	112.0	50.8	.034	.86	.39	9.91
5022FM new	4	solid	1000	305	183.0	83.0	.034	.86	.46	11.68
5000FM new	2	(7x20)	1000	305	117.0	53.1	.034	.86	.42	10.67
5002FM new	4	(7x20)	1000	305	189.0	85.7	.034	.86	.48	12.19

FRPE = Flame-retardant Polyethylene

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Speaker Cable

Commercial Audio Systems
Unshielded, Riser-Rated

NEW GENERATION®

Unshielded Multi-conductor

CMR/CMG FT4 Rated or CL3R Rated

Product Description

Bare copper conductors, PVC insulation, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	
22 to 16 AWG	.010″ (.254mm)
14 to 12 AWG	.014″ (.356mm)
NEC Articles	725
Jacket	PVC
Approvals	
NEC (22 to 16 AWG)	CMR FPLR†
CEC (22 to 16 AWG)	CMG FT4
NEC (14 to 12 AWG)	CL3R
NEC Articles	
22 to 16 AWG	800
14 to 12 AWG	725
Voltage Rating	300V
Temperature Rating	75°C

†CMR FPLR dual rating for 5000UE, 5100UE, 5000FE and 5100FE only.

Applications

- Intercom/PA Systems
- Sound/Audio Systems
- Security Systems
- Power Limited Controls
- Single Line Telephone

Solid Conductor



Stranded Conductor



Color Code Chart

(22 to 16 AWG)

Cond. No.	Color
1	Black
2	Red
3	White

(14 to 12 AWG)

Cond. No.	Color
1	Black
2	White
3	Red

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC CMR and CEC CMG FT4)										
22 AWG										
5520UE	2	solid	C-500	C-152	4.0	1.8	.015	.38	.122	3.10
			U-500	U-152	5.5	2.5				
			C-1000	C-305	8.0	3.6				
			U-1000	U-305	9.0	4.1				
			1000	305	9.0	4.1				
5500UE	2	7	C-500	C-152	4.0	1.8	.015	.38	.128	3.25
			U-500	U-152	5.5	2.5				
			500	152	5.5	2.5				
			C-1000	C-305	8.0	3.6				
			U-1000	U-305	10.0	4.5				
			1000	305	9.0	4.1				
5501UE	3	7	U-1000	U-305	13.0	5.9	.015	.38	.135	3.43
			1000	305	13.0	5.9				
20 AWG										
5400UE	2	7	C-500	C-152	6.0	2.7	.015	.38	.142	3.61
			U-1000	U-305	13.0	5.9				
			1000	305	13.0	5.9				
5401UE	3	7	500	152	9.0	4.1	.015	.38	.150	3.81
			U-1000	U-305	18.0	8.2				
			1000	305	18.0	8.2				
18 AWG										
5320UE	2	solid	C-500	C-152	7.5	3.4	.015	.38	.151	3.84
			U-1000	U-305	17.0	7.7				
5300UE*	2	7	C-500	C-152	8.5	3.9	.015	.38	.161	4.09
			U-500	U-152	9.5	4.3				
			500	152	9.5	4.3				
			U-1000	U-305	17.0	7.7				
			1000	305	18.0	8.2				
5321UE	3	solid	U-1000	U-305	23.0	10.4	.015	.38	.160	4.06
			1000	305	23.0	10.4				
5301UE	3	7	500	152	12.5	5.7	.015	.38	.171	4.34
			U-1000	U-305	25.0	11.3				
			1000	305	25.0	11.3				
16 AWG										
5200UE	2	19	C-500	C-152	11.5	5.2	.015	.38	.184	4.67
			U-500	U-152	13.0	5.9				
			500	152	12.5	5.7				
			U-1000	U-305	24.0	10.9				
			1000	305	25.0	11.4				
5201UE	3	19	U-500	U-152	18.5	8.4	.015	.38	.196	4.98
			500	152	18.0	8.2				
			U-1000	U-305	35.0	15.9				
			1000	305	38.0	17.3				
Unshielded Multi-conductor (NEC CL3R)										
14 AWG										
5100UE**	2	19	500	152	20.0	9.1	.015	.38	.234	5.94
			U-1000	U-305	38.0	17.2				
			1000	305	40.0	18.2				
5101UE	3	19	1000	305	56.0	25.4	.015	.38	.249	6.32
12 AWG										
5000UE**	2	19	500	152	29.0	13.2	.015	.38	.268	6.81
			1000	305	57.0	25.9				
5001UE	3	19	1000	305	82.0	37.3	.015	.38	.286	7.26

* 5300UE also available in White or Black.
** 5100UE and 5000UE also available in Red.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

High Strand Speaker Cable

Commercial Audio Systems
Unshielded, High-Flex and High-Purity

NEW GENERATION®

High Strand
Unshielded Multi-conductor
CM, CL3 or CL2 Rated

Product Description

Bare high-conductivity ETP copper conductors, highly stranded for ultra flexibility, high-grade PVC insulation, PVC jacket with rip cord. Available jacket colors: Blue, Green, White, Black and Gray. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare High-conductivity ETP Copper
Insulation	High-grade PVC
Insulation Thickness	
18 AWG to 16 AWG	.015″ (.381mm)
14 AWG to 10 AWG	.020″ (.508mm)
Jacket	PVC
Approvals	
NEC (18 AWG & 16 AWG)	CM
NEC (14 AWG & 12 AWG)	CL3
NEC (10 AWG)	CL2, Audio Use Only
Temperature Rating	75°C

Applications

- Speaker Systems
- Sound/Audio Systems
- Intercom/PA Systems
- Home Theater and Entertainment Systems
- Stadium and Arena Speaker Systems



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
High Strand Unshielded Multi-conductor (NEC CM, CL3 or CL2)										
18 AWG (NEC CM)										
5300UP	2	42	U-500	U-152	11.0	5.0	.015	.38	.184	4.67
			500	152	12.0	5.5				
			U-1000	U-305	20.0	9.1				
			1000	305	20.0	9.1				
5302UP	4	42	U-500	U-152	18.5	8.4	.015	.38	.216	5.49
			500	152	19.0	8.6				
			U-1000	U-305	35.0	15.9				
			1000	305	37.0	16.8				
16 AWG (NEC CM)										
5200UP	2	65	U-500	U-152	14.5	6.6	.015	.38	.208	5.28
			500	152	14.5	6.6				
			U-1000	U-305	28.0	12.7				
			1000	305	28.0	12.7				
5202UP	4	65	U-500	U-152	25.5	11.6	.015	.38	.244	6.20
			500	152	26.0	11.8				
			U-1000	U-305	49.0	22.2				
			1000	305	51.0	23.2				
14 AWG (NEC CL3)										
5100UP	2	42	U-500	U-152	21.0	9.5	.015	.38	.260	6.60
			500	152	22.5	10.2				
			U-1000	U-305	41.0	18.6				
			1000	305	43.0	19.5				
5102UP	4	42	500	152	41.0	18.6	.018	.46	.313	7.95
			1000	305	81.0	36.8				
12 AWG (NEC CL3)										
5000UP	2	65	U-500	U-152	31.0	14.1	.018	.46	.302	7.67
			500	152	32.5	14.7				
			1000	305	64.0	29.1				
5002UP	4	65	500	152	60.0	27.2	.018	.46	.357	9.07
			1000	305	121.0	55.0				
10 AWG (NEC CL2 • Audio Use Only)										
5T00UP*	2	65	500	152	49.5	22.5	.026	.66	.356	9.04
			1000	305	96.0	43.6	For Plenum version of 5T00UP, see 6T00UP on page 13.60.			

*Available in Gray only.

Color Code Chart

Cond. No.	Color
1	Black
2	White
3	Red
4	Green

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Audio Cable

Commercial Audio Systems
Shielded, Riser-Rated or CL3R Rated

NEW GENERATION®

Shielded Multi-conductor

CMR/CMG FT4 Rated or CL3R Rated

Product Description

Bare copper conductors, PVC insulation, conductors cabled, Beldfoil® shield tape (foil side out) with drain wire, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

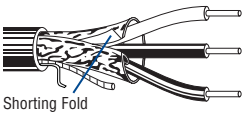
Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	
24 to 16 AWG	.010″ (.254mm)
14 to 12 AWG	.014″ (.356mm)
Shield	Beldfoil
Jacket	PVC
Approvals	
NEC (24 to 16 AWG)	CMR FPLR†
CEC (24 to 16 AWG)	CMG FT4
NEC (14 to 12 AWG)	CL3R
NEC Articles	
24 to 16 AWG	800
14 to 12 AWG	725
Voltage Rating	300V
Temperature Rating	75°C

†CMR FPLR dual rating for 5000UE, 5100UE, 5000FE and 5100FE only.

Applications

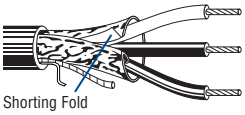
- Intercom/PA Systems
- Sound/Audio Systems
- Fire Alarm Systems (Red Only)

Solid Conductor



Shorting Fold

Stranded Conductor



Shorting Fold

Color Code Chart

(24 to 16 AWG)

Cond. No.	Color
1	Black
2	Red
3	White

(14 to 12 AWG)

Cond. No.	Color
1	Black
2	White
3	Red

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC CMR and CEC CMG FT4)										
24 AWG										
5600FE	2	7	U-1000 1000	U-305 305	11.0 10.0	5.0 4.5	.015	.38	.120	3.05
22 AWG										
5520FE	2	solid	C-500 C-1000 U-1000 1000	C-152 C-305 U-305 305	6.5 13.0 14.0 14.0	3.0 5.9 6.4 6.4	.015	.38	.125	3.18
5500FE	2	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	5.5 6.5 6.5 12.0 12.0	2.5 3.0 3.0 5.5 5.5	.015	.38	.130	3.30
5521FE	3	solid	U-1000 1000	U-305 305	12.0 12.0	5.4 5.4	.015	.38	.132	3.35
5501FE	3	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	7.0 8.0 7.5 15.0 15.0	3.2 3.6 3.4 6.8 6.8	.015	.38	.138	3.51
20 AWG										
5400FE	2	7	U-500 500 U-1000 1000	U-152 152 U-305 305	9.0 8.5 17.0 17.0	4.1 3.9 7.7 7.7	.015	.38	.145	3.68
5421FE	3	solid	U-1000	U-305	20.0	9.1	.015	.38	.146	3.71
5401FE	3	7	U-500 500 U-1000 1000	U-152 152 U-305 305	11.0 10.5 21.0 21.0	5.0 4.8 9.5 9.5	.015	.38	.153	3.89
18 AWG										
5320FE	2	solid	C-500 U-1000 1000	C-152 U-305 305	10.0 21.0 21.0	4.5 9.5 9.5	.015	.38	.155	3.94
5300FE	2	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.0 12.0 12.0 23.0 23.0	5.0 5.4 5.4 10.4 10.4	.015	.38	.165	4.19
5301FE	3	7	U-500 500 U-1000 1000	U-152 152 U-305 305	15.5 15.0 30.0 30.0	7.0 6.8 13.6 13.6	.015	.38	.175	4.45
16 AWG										
5200FE*	2	19	U-500 500 U-1000 1000	U-152 152 U-305 305	16.5 16.5 31.0 32.0	7.5 7.5 14.1 14.5	.015	.38	.188	4.78
5201FE	3	19	500 U-1000 1000	152 U-305 305	21.5 42.0 42.0	9.8 19.1 19.1	.015	.38	.200	5.08
Shielded Multi-conductor (NEC CL3R)										
14 AWG										
5100FE**	2	19	500 U-1000 1000	152 U-305 305	28.5 49.0 51.0	13.0 22.3 23.2	.015	.38	.238	6.05
5101FE	3	19	1000	305	66.0	30.0	.015	.38	.253	6.43
12 AWG										
5000FE**	2	19	500 1000	152 305	36.5 67.0	16.6 30.4	.015	.38	.272	6.91

* 5200FE also available in White.
** 5100FE and 5000FE also available in Red (rating FPLR).

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Audio Cable

Commercial Audio Systems
Unshielded, Plenum-Rated

NEW GENERATION®

Unshielded Multi-conductor

CMP FT6 Rated or CL2P Rated

Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	
22 to 16 AWG	.009″ (.229mm)
14 to 10 AWG	.011″ (.279mm)
Jacket	Flamarrest
Approvals	
NEC (22 to 16 AWG)	CMP
CEC (22 to 16 AWG)	CMP FT6
NEC (14 to 10 AWG)	CL2P
NEC Articles	
22 to 16 AWG	800
14 to 10 AWG	725
Voltage Rating	
22 to 16 AWG	300V
14 to 10 AWG	150V
Temperature Rating	75°C

Applications

- Intercom/PA Systems
- Sound/Audio Systems

Solid Conductor



Stranded Conductor



Color Code Chart

(22 to 16 AWG)

Cond. No.	Color
1	Black
2	Red
3	White

(14 to 10 AWG)

Cond. No.	Color
1	Black
2	White
3	Red

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded Multi-conductor (NEC CMP and CEC CMP FT6)										
22 AWG										
6520UE	2	solid	U-1000	U-305	10.0	4.5	.015	.38	.118	3.00
			1000	305	9.0	4.1				
6500UE	2	7	C-500	C-152	4.5	2.0	.015	.38	.124	3.15
			C-1000	C-305	9.0	4.1				
			U-1000	U-305	10.0	4.5				
			1000	305	10.0	4.5				
6521UE	3	solid	1000	305	13.0	5.9	.015	.38	.125	3.18
6501UE	3	7	U-1000	U-305	14.0	6.4	.015	.38	.131	3.33
			1000	305	13.0	5.9				
20 AWG										
6400UE	2	7	C-500	C-152	6.0	2.7	.015	.38	.138	3.51
			500	152	7.0	3.2				
			U-1000	U-305	14.0	6.4				
			1000	305	14.0	6.4				
6401UE	3	7	U-1000	U-305	19.0	8.6	.015	.38	.146	3.71
			1000	305	18.0	8.2				
			5000	1524	90.0	40.9				
18 AWG										
6320UE	2	solid	U-1000	U-305	17.0	7.7	.015	.38	.147	3.73
6300UE	2	7	C-500	C-152	8.0	3.6	.015	.38	.157	3.99
			U-500	U-152	9.5	4.3				
			500	152	9.0	4.1				
			U-1000	U-305	18.0	8.2				
			1000	305	18.0	8.2				
			5000	1524	90.0	40.9				
6321UE	3	solid	U-1000	U-305	24.0	10.9	.015	.38	.156	3.96
			1000	305	24.0	10.9				
6301UE	3	7	500	152	12.5	5.7	.015	.38	.168	4.27
			U-1000	U-305	25.0	11.4				
			1000	305	25.0	11.4				
16 AWG										
6200UE	2	19	500	152	13.0	5.9	.015	.38	.180	4.57
			U-1000	U-305	25.0	11.3				
			1000	305	26.0	11.8				
6201UE	3	19	500	152	18.0	8.2	.015	.38	.191	4.85
			U-1000	U-305	36.0	16.4				
			1000	305	37.0	16.8				
Unshielded Multi-conductor (NEC CL2P)										
14 AWG										
6100UE	2	19	500	152	19.5	8.9	.015	.38	.222	5.64
			U-1000	U-305	38.0	17.2				
			1000	305	38.0	17.2				
			5000	1524	195.0	88.5				
6101UE	3	19	1000	305	56.0	25.4	.015	.38	.236	5.99
12 AWG										
6000UE	2	19	500	152	32.0	14.5	.015	.38	.256	6.50
			1000	305	58.0	26.4				
6001UE	3	19	1000	305	83.0	37.7	.015	.38	.273	6.93
10 AWG (For Audio Use Only)										
6T00UP	2	65	1000	305	85.0	38.6	.015	.38	.308	7.82

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Audio Cable

Commercial Audio Systems
Shielded, Plenum-Rated

NEW GENERATION®

Shielded Multi-conductor

CMP FT6 Rated or CL2P Rated

Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, overall Beldfoil® tape shield (foil side out) and drain wire, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

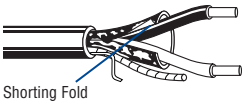
Specifications

Conductor	Bare Copper
Insulation	Flamarrest
Insulation Thickness	
22 to 16 AWG	.009″ (.229mm)
14 to 12 AWG	.011″ (.279mm)
Shield	Beldfoil
Jacket	Flamarrest
Approvals	
NEC (22 to 16 AWG)	CMP
CEC (22 to 16 AWG)	CMP FT6
NEC (14 to 12 AWG)	CL2P
NEC Articles	
22 to 16 AWG	800
14 to 12 AWG	725
Voltage Rating	
22 to 16 AWG	300V
14 to 12 AWG	150V
Temperature Rating	75°C

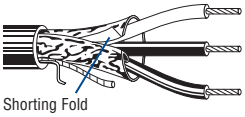
Applications

- Intercom/PA Systems
- Sound/Audio Systems

Solid Conductor



Stranded Conductor



Color Code Chart

(22 to 16 AWG)

Cond. No.	Color
1	Black
2	Red
3	White

(14 to 12 AWG)

Cond. No.	Color
1	Black
2	White
3	Red

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC CMP and CEC CMP FT6)										
22 AWG										
6520FE	2	solid	C-500	C-152	6.0	2.7	.015	.38	.122	3.10
			C-1000	C-305	12.0	5.4				
			U-1000	U-305	13.0	5.9				
			1000	305	13.0	5.9				
6500FE	2	7	C-500	C-152	5.5	2.5	.015	.38	.128	3.25
			U-500	U-152	7.0	3.2				
			500	152	7.0	3.2				
			C-1000	C-305	11.0	5.0				
			U-1000	U-305	13.0	5.9				
			1000	305	13.0	5.9				
6521FE	3	solid	1000	305	16.0	7.3	.015	.38	.129	3.28
6501FE	3	7	500	152	8.0	3.6	.015	.38	.135	3.43
			U-1000	U-305	16.0	7.3				
			1000	305	16.0	7.3				
20 AWG										
6420FE	2	solid	C-500	C-152	7.0	3.2	.015	.38	.134	3.40
			U-1000	U-305	16.0	7.3				
			1000	305	15.0	6.8				
6400FE	2	7	C-500	C-152	7.5	3.4	.015	.38	.142	3.60
			U-1000	U-305	17.0	7.7				
			1000	305	17.0	7.7				
6401FE	3	7	U-1000	U-305	21.0	9.5	.015	.38	.150	3.81
			1000	305	22.0	10.0				
18 AWG										
6320FE	2	solid	C-500	C-152	10.5	4.7	.015	.38	.150	3.81
			1000	305	22.0	10.0				
6300FE	2	7	C-500	C-152	11.0	5.0	.015	.38	.162	4.11
			U-500	U-152	12.0	5.4				
			500	152	12.0	5.4				
			U-1000	U-305	23.0	10.4				
			1000	305	23.0	10.4				
6301FE	3	7	U-500	U-152	15.5	7.0	.015	.38	.172	4.32
			U-1000	U-305	30.0	13.6				
			1000	305	31.0	14.1				
16 AWG										
6200FE	2	19	500	152	16.5	7.5	.015	.38	.184	4.67
			1000	305	33.0	15.0				
6201FE	3	19	500	152	22.5	10.2	.015	.38	.195	4.95
			U-1000	U-305	43.0	19.5				
			1000	305	45.0	20.5				
Shielded Multi-conductor (NEC CL2P)										
14 AWG										
6100FE	2	19	500	152	25.0	11.3	.015	.38	.220	5.59
			U-1000	U-305	49.0	22.2				
			1000	305	51.0	23.2				
6101FE	3	19	1000	305	66.0	30.0	.015	.38	.234	5.94
12 AWG										
6000FE	2	19	500	152	36.0	16.4	.015	.38	.260	6.60
			1000	305	68.0	30.9				

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Audio Cable

Pro Audio and Intercom Systems
Shielded, Plenum-Rated

NEW GENERATION®

Shielded Multi-conductor
CMP FT6 Rated

Product Description

Bare copper conductors, FEP insulation, cabled with a Beldfoil® shield tape and drain wire. Natural Flamarrest® jacket.

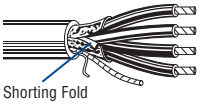
Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	FEP
Insulation Thickness	
22 AWG	.0055″ (.140mm)
20 AWG	.0060″ (.152mm)
18 AWG	.0060″ (.152mm)
Shield	Beldfoil
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Pro Audio
- Intercom/PA Systems
- Security Systems



Shorting Fold

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Shielded Multi-conductor (NEC CMP and CEC CMP FT6)										
22 AWG										
6500FC	2	7	U-1000 1000	U-305 305	11.0 11.0	5.0 5.0	.015	.38	.116	2.95
6502FC	4	7	1000	305	18.0	8.2	.015	.38	.133	3.38
20 AWG										
6400FC	2	7	U-1000	U-305	15.0	6.8	.015	.38	.133	3.38
18 AWG										
6300FC	2	7	U-1000 1000	U-305 305	23.0 22.0	10.4 10.0	.017	.42	.155	3.94
6302FC	4	7	1000	305	34.0	15.5	.017	.42	.179	4.55

Color Code Chart

Cond. No.	Color
1	Black
2	Red
3	White
4	Green

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Audio Cable

Commercial Sound/Nurse Call Systems
Unshielded, Non-Plenum

NEW GENERATION®

Unshielded, Pairs or Multi-conductor
CM Rated

Product Description

24 AWG solid bare copper conductors, polypropylene or polyolefin insulation, Dark Gray PVC jacket with rip cord.

Color Code: See Charts below.

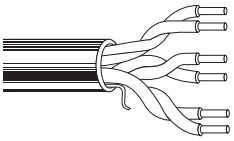
Specifications

Conductor	Bare Copper
Insulation	
Multiconductor	Polypropylene
Paired	Polyolefin
Insulation Thickness	.0065″ (.165mm)
Jacket	PVC
Nominal Capacitance	
Multiconductor	17 pF/ft.
Paired	15 pF/ft.
Approvals	
NEC	CM
CEC	CM
Voltage Rating	300V

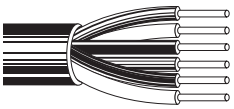
Applications

- Nurse Call Systems
- Commercial Sound Systems
- Annunciators
- Voice Systems
- Paging

Paired



Multi-conductor



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Unshielded, Paired (NEC CM and CEC CM FT1)										
24 AWG, Cat. 5e										
5662UG new	6 (3/pr)	solid	1000	304.8	16.0	8.62	—	—	.172	4.37
Unshielded, Multi-conductor (NEC CM and CEC CM)										
24 AWG										
5626UG new	8	solid	1000	304.8	29.0	13.15	.030	.762	.093 x .324	2.36 x 8.23
5624UG new	6	solid	1000	304.8	19.0	8.62	.024	.610	.081 x .246	2.06 x 6.25

Color Code Chart
(5662UG)

Pair No.	Color Combinations
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green

Color Code Chart
(5626UG)

Cond. No.	Color
1	Yellow
2	Blue
3	Black
4	Orange
5	Red
6	Green
7	White
8	Purple

Color Code Chart
(5624UG)

Cond. No.	Color
1	Blue
2	Black
3	Orange
4	Red
5	Green
6	White

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Audio Cable

Commercial Sound/Nurse Call Systems
Unshielded, Plenum-Rated

NEW GENERATION®

Unshielded,
Pairs or Multi-conductor
CMP Rated

Product Description

24 AWG solid bare copper conductors, FEP insulation, Dark Gray Flamarrest® jacket with rip cord.

Color Code: See Charts below.

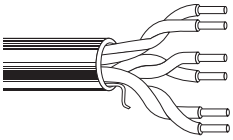
Specifications

Conductor	Bare Copper
Insulation	FEP
Insulation Thickness	.007″ (.178mm)
Jacket	Flamarrest
Nominal Capacitance	15 pF/ft.
Approvals	
NEC	CMP
CEC	CMP FT6
Voltage Rating	300V

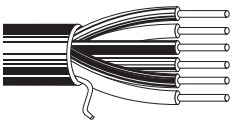
Applications

- Nurse Call Systems
- Commercial Sound Systems
- Annunciators
- Voice Systems
- Paging

Paired



Multi-conductor



Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
Plenum-rated, Unshielded, Pairs (NEC CMP and CEC CMP FT4, FT6)										
24 AWG, Cat. 5e										
6662UG new	6 (3/pr)	solid	1000	304.8	23.0	10.4	—	—	.165	4.19
Plenum-rated, Unshielded, Multi-conductor (NEC CMP and CEC CMP FT6)										
24 AWG										
6626UG new	8	solid	1000	304.8	28.0	12.70	.019	.483	.072 x .310	1.83 x 7.87
6624UG new	6	solid	1000	304.8	21.0	9.53	.019	.483	.072 x .246	1.83 x 6.25

Color Code Chart
(6662UG)

Pair No.	Color Combinations
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green

Color Code Chart
(6626UG)

Cond. No.	Color
1	Yellow
2	Blue
3	Black
4	Orange
5	Red
6	Green
7	White
8	Purple

Color Code Chart
(6624UG)

Cond. No.	Color
1	Blue
2	Black
3	Orange
4	Red
5	Green
6	White

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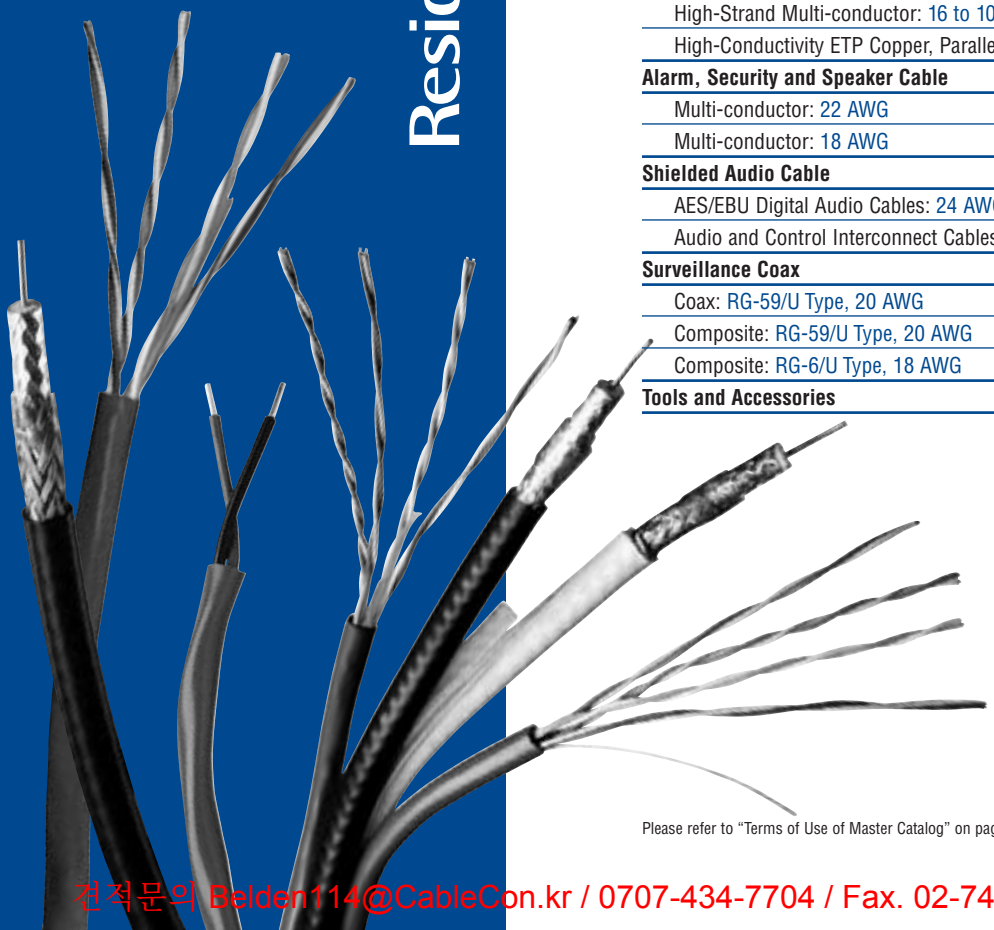
BELDEN
SENDING ALL THE RIGHT SIGNALS



21 Residential Cables

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Please refer to “Terms of Use of Master Catalog” on page 22.22

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Introduction

Innovative Home Cabling Solutions From the World's Most Trusted Name in Cable

Because we understand that each home installation has its own set of needs and expectations, Belden offers its structured cabling line of individual, dual component and composite cables — in all, over 50 different cables for your home automation, networking, security and entertainment system installations.

Belden Quality and Reliability

Belden manufactures all of the cables in its residential cable line so you can be assured that each cable product is the result of the most rigorous quality process in the industry.

Belden's commitment to quality and reliability is unequaled in its marketplace. And since we have such a wide range of products to meet your varied needs, Belden can easily provide you with one-stop home shopping.

High-Performance, Easy-to-Install Cables

Individual or single application cables are available for any data, video, audio or security need, including:

- Category 5e, Category 6 UTP and fiber data cables for multimedia, voice, video and data use
- Series 6 and Series 59 video coax cables for HDTV, DBS, CATV, S-Video, CCTV and cable modem applications
- Speaker cables for your audio distribution needs
- Paired, unshielded cables for security and alarm applications

Belden also offers over 20 different composite cables. Composite cables simplify a multiple use installation by combining Belden data cables, coaxial cables, paired and multi-conductor cables, and fiber optic cables in a single-pull product.

Time-tested and Preferred in Other Industries

Many of the Belden® Residential Cables in this catalog have been long-standing leaders in other industries such as:

- **Computer networks** — where Belden offers the most innovative cables and the leading data cable technology worldwide.
- **Broadcast** — where network studios prefer Belden over any other cable for picture-perfect quality and professional audio technicians demand Belden for crystal-clear audio quality.
- **Broadband CATV** — where Belden Duobond Plus® (Tri-shield) Cables have consistently outperformed the more elaborate quad-shielded cables.
- **Alarm/Security** — where Belden has been a favorite among installers for many years.

Now, these industry-leading and time-tested cables are available, along with many new innovations, for wiring the home of the 21st Century…only from Belden.

Better Designs, Better Performance

Some unique high performance technologies are used in the manufacture of these various cables, including:

Belden's Patented Data Cable Technology: Bonded-Pairs

To ensure top performance, Belden uses a unique manufacturing process that affixes the individual insulated conductors of the pairs along their longitudinal axis. This cable construction feature prevents gaps from occurring between the conductor pairs: a critical factor in the electrical performance of the cable.

Only Belden Bonded-Pair Data Cables Offer the Assurance of *Installable Performance*™

Due to the patented Bonded-Pair design, these cables are able to withstand the rigors of a typical installation without any degradation in performance. This means that the Cat 5e cable that you purchase from Belden to meet Cat 5e specifications will not only meet these specifications before installation, but more importantly, it will meet them after installation.

Coax Cables with Belden's Exclusive Duobond Plus® Shielding

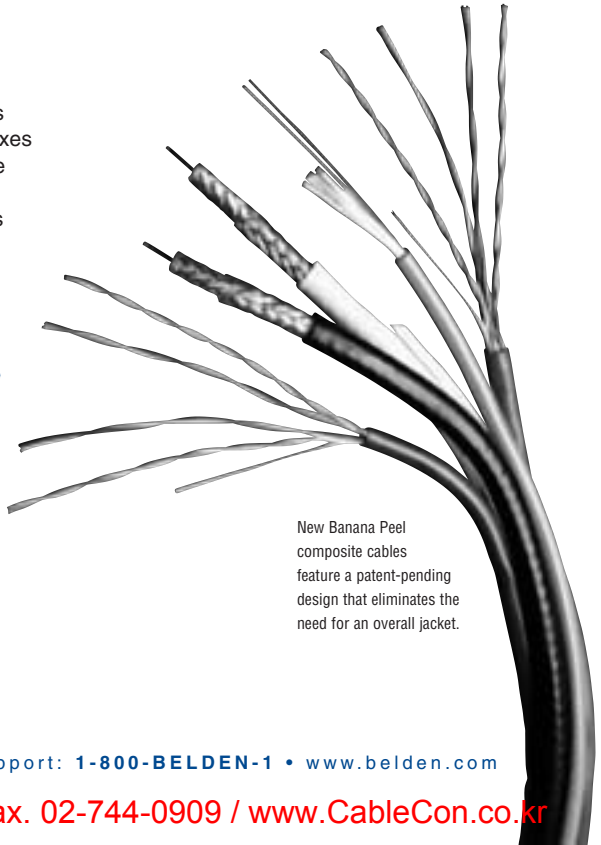
Duobond Plus consists of a Duofoil® II (foil tape) surrounded by an 80 percent braid and an outer layer of foil with a unique shorting fold. This unique construction provides optimum shielding effectiveness.

Composite Cables — Without a Jacket!

Belden Banana Peel® composite cables feature a patent-pending design that eliminates the need for an overall jacket, making these cables easy to handle, easy to identify, easy to pull and easy to terminate. Just peel the cables off the center spline, and you're in business.

Everything You Need For The Intelligent Home

These structured cabling products for the Intelligent Home are all brought to you by Belden — the most innovative and trusted manufacturer in the cable industry. Belden offers the most comprehensive, time-tested and proven products for cabling the home.



New Banana Peel composite cables feature a patent-pending design that eliminates the need for an overall jacket.

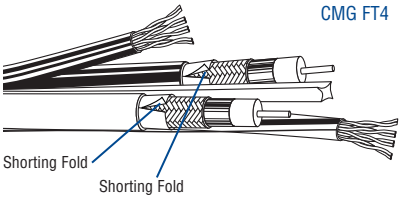
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Composite Data, Audio, Video, Security and Control Cable

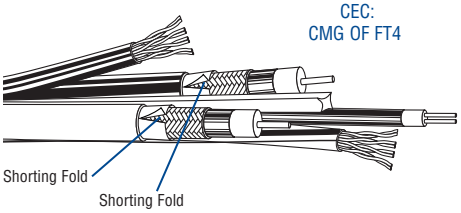
Banana Peel® Jacketless Cables
Category 5e Bonded-Pairs

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Overall Nom. OD		Component Descriptions	Shielding Materials & Nom. DCR	Insulation Material & Color Code	Component Jacket Material & Colors	Component Nom. OD	
			Ft.	m	Lbs.	kg	Inch	mm					Inch	mm
Composite • (2) Cat 5e 4-Bonded-Pair UTP 24 AWG **• (2) Series 6 Coax** w/Duobond Plus® (Bonded Tri-Shield)														
Polyolefin Insulation (Pairs) **• Gas-injected FPE Insulation** (Coax) **• F-R PVC Jackets • No Overall Jacket**														
	7876S	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	63.0 119.0	28.6 54.0	.550	13.97	(2) 4-Pair UTP Data Cables: Cat 5e Bonded-Pairs 24 AWG (solid) Bare Copper Cond. (1700R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue (1) Green	.204	5.18
									(2) Coax: Series 6 18 AWG (solid) Bare Copper Cond. (7915A style)	Duobond Plus (Bonded Tri-Shield): Duobond® + 77% AL Braid + AL Foil w/ Shorting Fold 4.6Ω/M′ 15.1Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black (1) White	.275	6.99



U.S. Patents 7,049,523; 5,606,151; 5,734,126.
Third party verified to TIA/EIA-568-B.2, Category 5e
Coax sweep tested to 3.0 GHz and jacket sequentially marked.
Coax shield effectiveness 125dB @ 1GHz is better than Quad shield.

Composite • (2) Cat 5e 4-Bonded-Pair UTP 24 AWG **• (2) Series 6 Coax** w/Duobond Plus **• (1) 2-Fiber LANLite®**														
Polyolefin Insulation (Pairs) **• Gas-injected FPE Insulation** (Coax) **• F-R PVC Jackets • No Overall Jacket**														
	7878S	NEC: CMR OF CEC: CMG OF FT4	500 1000	152.4 304.8	71.5 137.0	32.4 62.1	.595	15.11	(2) 4-Pair UTP Data Cables: Cat 5e Bonded-Pairs 24 AWG (solid) Bare Copper Cond. (1700R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue (1) Green	.204	5.18
									(2) Coax: Series 6 18 AWG (solid) Bare Copper Cond. (7915A style)	Duobond Plus (Bonded Tri-Shield): Duobond + 77% AL Braid + AL Foil w/ Shorting Fold 4.6Ω/M′ 15.1Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black (1) White	.275	6.99
									(1) 2-Fiber LANLite: Gigabit Ethernet 62.5µ/125µ/900µ (core/clad/coating) Tight Buffered	None	PVC (1) Blue (1) Orange	F-R PVC (1) Orange	.175	4.45



U.S. Patents 7,049,523; 5,606,151; 5,734,126.
Third party verified to TIA/EIA-568-B.2, Category 5e
Coax sweep tested to 3.0 GHz and jacket sequentially marked.
Coax shield effectiveness 125dB @ 1GHz is better than Quad shield.

AL = Aluminum • BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.
Request quotations of cables not listed.

Color Codes: Cat 5e UTP

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

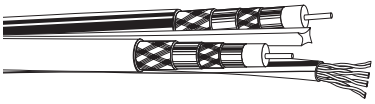
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Composite Data, Audio, Video, Security and Control Cable

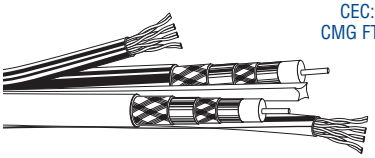
Banana Peel® Jacketless Cables
Category 5e

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Overall Nom. OD Inch	Overall Nom. OD mm	Component Descriptions	Shielding Materials & Nom. DCR	Insulation Material & Color Code	Component Jacket Material & Colors	Component Nom. OD Inch	Component Nom. OD mm
Composite • (1) Cat 5e 4-Pair UTP 24 AWG • **(2) Series 6 Coax** w/Duobond® IV* Quad Shield														
Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **PVC Jackets • No Overall Jacket**														
	7956S new	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	59.0 112.0	26.8 50.8	.596	15.14	(2) 4-Pair UTP Data Cables: Cat 5e 24 AWG (solid) BC Cond. (1583R style)	None	Polyolefin (see chart below)	PVC (1) Blue (1) Green	.194	4.93
									(2) Coax: Series 6 18 AWG (solid) BC Cond. (7916A style)	Duobond IV Quad Shield: 60% & 40% AL Braids 4.8Ω/M' 15.7Ω/km	Gas-injected Foam Polyethylene	PVC (1) Black (1) White	.298	7.57



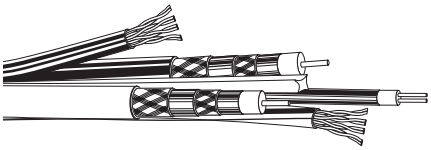
U.S. Patent 7,049,523.
Third party verified to TIA/EIA-568-B.2, Category 5e.
Coax shield effectiveness 110dB @ 1GHz.
Coax sweep tested to 3.0 GHz and jacket sequentially marked.

Composite • (2) Cat 5e 4-Pair UTP 24 AWG • **(2) Series 6 Coax** w/Duobond IV* Quad Shield														
Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **F-R PVC Jackets • No Overall Jacket**														
	7913S	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	68.5 130.0	31.1 59.0	.600	15.24	(2) 4-Pair UTP Data Cables: Cat 5e 24 AWG (solid) BC Cond. (1583R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue (1) Green	.194	4.93
									(2) Coax: Series 6 18 AWG (solid) BC Cond. (7916A style)	Duobond IV Quad Shield: 60% & 40% AL Braids 4.8Ω/M' 15.7Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black (1) White	.298	7.57



U.S. Patent 7,049,523.
Third party verified to TIA/EIA-568-B.2, Category 5e.
Coax shield effectiveness 110dB @ 1GHz.
Coax sweep tested to 3.0 GHz and jacket sequentially marked.

Composite • (2) Cat 5e 4-Pair UTP 24 AWG • **(2) Series 6 Coax** w/Duobond IV* Quad Shield • **(1) 2-Fiber LANLite®**														
Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **F-R PVC Jackets • No Overall Jacket**														
	7914S	NEC: CMR OF CEC: CMG OF FT4	500 1000	152.4 304.8	77.0 148.0	34.9 67.1	.625	15.88	(2) 4-Pair UTP Data Cables: Cat 5e 24 AWG (solid) BC Cond. (1583R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue (1) Green	.194	4.93
									(2) Coax: Series 6 18 AWG (solid) BC Cond. (7916A style)	Duobond IV Quad Shield: 60% & 40% AL Braids 4.8Ω/M' 15.7Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black (1) White	.298	7.57
									(1) 2-Fiber LANLite: Gigabit Ethernet 62.5µ/125µ/900µ (core/clad/coating) Tight Buffered	None	PVC (1) Blue (1) Orange	F-R PVC (1) Orange	.175	4.45



U.S. Patent 7,049,523.
Third party verified to TIA/EIA-568-B.2, Category 5e.
Coax shield effectiveness 110dB @ 1GHz.
Coax sweep tested to 3.0 GHz and jacket sequentially marked.

AL = Aluminum • BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.
Request quotations of cables not listed.

*Duobond IV = Duobond II + 60% aluminum braid + Duofoil® + 40% aluminum braid.

Color Codes: Cat 5e UTP

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

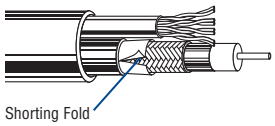
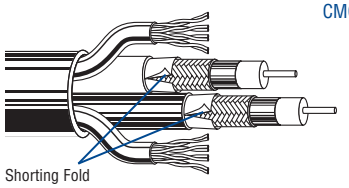
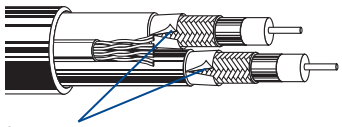
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Composite Data, Audio, Video, Security and Control Cable

Jacketed Cables

Category 5e Bonded-Pairs

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Overall Nom. OD		Component Descriptions	Shielding Materials & Nom. DCR	Insulation Material & Color Code	Component Jacket Material & Colors	Component Nom. OD	
			Ft.	m	Lbs.	kg	Inch	mm					Inch	mm
Composite • (1) Cat 5e 4-Bonded-Pair UTP 24 AWG **• (1) Series 6 Coax** w/Duobond Plus® Bonded Tri-Shield														
Polyolefin Insulation (Pairs) **• Gas-injected FPE Insulation** (Coax) **• F-R PVC Jackets • Overall Green F-R PVC Jacket**														
	7910A	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	48.5 91.0	22.0 41.3	.335 x .535	8.51 x 13.59	(1) 4-Pair UTP Data Cable: Cat 5e Bonded-Pairs 24 AW (solid) BC Cond. (1700R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue	.200	5.08
 Shorting Fold									(1) Coax: Series 6 18 AWG (solid) Bare Copper Cond. (7915A style)	Duobond Plus Bonded Tri-Shield: Duobond® + 77% AL Braid + AL Foil w/ Shorting Fold 4.6Ω/M′ 15.1Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black	.275	6.99
Third party verified to TIA/EIA-568-B.2, Category 5e Coax sweep tested to 3.0 GHz and jacket sequentially marked. Coax shield effectiveness 125dB @ 1GHz is better than Quad shield.														
Composite • (2) Cat 5e 4-Bonded-Pair UTP • (2) Series 6 Coax w/Duobond Plus Bonded Tri-Shield														
Polyolefin Insulation (Pairs) **• Gas-injected FPE Insulation** (Coax) **• F-R PVC Jackets • Overall Green F-R PVC Jacket**														
	7876A	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	77.0 148.0	35.0 67.2	.610	15.49	(2) 4-Pair UTP Data Cables: Cat 5e Bonded-Pairs 24 AWG (solid) BC Cond. (1700R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue (1) Green	.200	5.08
 Shorting Fold									(2) Coax: Series 6 18 AWG (solid) Bare Copper Cond. (7915A style)	Duobond Plus Bonded Tri-Shield: Duobond + 77% AL Braid + AL Foil w/ Shorting Fold 4.6Ω/M′ 15.1Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black (1) White	.275	6.99
Third party verified to TIA/EIA-568-B.2, Category 5e Coax sweep tested to 3.0 GHz and jacket sequentially marked. Coax shield effectiveness 125dB @ 1GHz is better than Quad shield.														
Composite • (1) Cat 5e 4-Bonded-Pair UTP • (2) Series 6 Coax w/Duobond Plus Bonded Tri-Shield														
Polyolefin Insulation (Pairs) **• Gas-injected FPE Insulation** (Coax) **• F-R PVC Jackets • Overall Green F-R PVC Jacket**														
	7877A	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	67.0 128.0	30.5 58.2	.610	15.49	(1) 4-Pair UTP Data Cable: Cat 5e Bonded-Pairs 24 AWG (solid) BC Cond. (1700R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue	.200	5.08
 Shorting Fold									(2) Coax: Series 6 18 AWG (solid) Bare Copper Cond. (7915A style)	Duobond Plus Bonded Tri-Shield: Duobond + 77% AL Braid + AL Foil w/ Shorting Fold 4.6Ω/M′ 15.1Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black (1) White	.275	6.99
Third party verified to TIA/EIA-568-B.2, Category 5e Coax sweep tested to 3.0 GHz and jacket sequentially marked. Coax shield effectiveness 125dB @ 1GHz is better than Quad shield.														

AL = Aluminum • BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.
Request quotations of cables not listed.

Color Codes: Cat 5e UTP

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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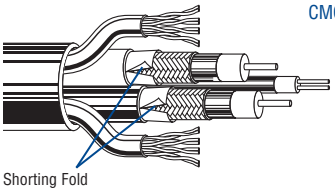
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Composite Data, Audio, Video, Security and Control Cable

Jacketed Cables

Category 5e Bonded-Pairs and Category 5

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Overall Nom. OD		Component Descriptions	Shielding Materials & Nom. DCR	Insulation Material & Color Code	Component Jacket Material & Colors	Component Nom. OD	
			Ft.	m	Lbs.	kg	Inch	mm					Inch	mm
Composite • (2) Cat 5e 4-Bonded-Pair UTP 24 AWG • **(2) Series 6 Coax** w/Duobond Plus® Tri-Shield • **(1) 2-Fiber LANLite®**														
Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **F-R PVC Jackets • Overall Green F-R PVC Jacket**														
	7878A	NEC: CMR OF CEC: CMG OF FT4	500 1000	152.4 304.8	84.0 162.0	34.2 73.5	.635	16.13	(2) 4-Pair UTP Data Cables: Cat 5e Bonded-Pairs 24 AWG (solid) BC Cond. (1700R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue (1) Green	.200	5.08
									(2) Coax: Series 6 18 AWG (solid) Bare Copper Cond. (7915A style)	Duobond Plus Bonded Tri-Shield: Duobond® + 77% AL Braid + AL Foil w/ Shorting Fold 4.6Ω/M′ 15.1Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black (1) White	.275	6.99
									(1) 2-Fiber LANLite: Gigabit Ethernet 62.5µ/125µ/900µ (core/clad/coating) Tight Buffered	None	PVC (1) Blue (1) Orange	F-R PVC (1) Orange	.175	4.45



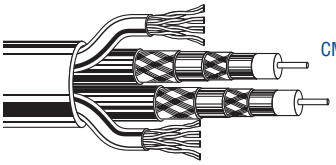
Shorting Fold

Third party verified to TIA/EIA-568-B.2, Category 5e
Coax sweep tested to 3.0 GHz and jacket sequentially marked.
Coax shield effectiveness 125dB @ 1GHz is better than Quad shield.

Composite • (2) Cat 5 4-Pair UTP 24 AWG • **(2) Series 6 Coax** w/Duobond IV* Quad Shield

Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **F-R PVC Jackets • Overall Green F-R PVC Jacket**

	7913A	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	82.0 157.0	37.2 71.3	.660	16.76	(2) 4-Pair UTP Data Cables: Cat 5e 24 AWG (solid) BC Cond. (1583R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue (1) Green	.195	4.95
									(2) Coax: Series 6 18 AWG (solid) BC Cond. (7916A style)	Duobond IV Quad Shield: 60% & 40% AL Braids 4.8Ω/M′ 15.7Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black (1) White	.298	7.57

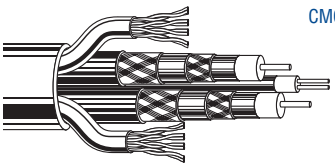


Third party verified to TIA/EIA-568-B.2, Category 5e
Coax sweep tested to 3.0 GHz and jacket sequentially marked.
Coax shield effectiveness 110dB @ 1GHz.

Composite • (2) Cat 5 4-Pair UTP 24 AWG • **(2) Series 6 Coax** w/Duobond IV* Quad Shield • **(1) 2-Fiber LANLite**

Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **F-R PVC Jackets • Overall Green F-R PVC Jacket**

	7914A	NEC: CMR OF CEC: CMG OF FT4	500 1000	152.4 304.8	88.0 169.0	40.0 76.7	.660	16.76	(2) 4-Pair UTP Data Cables: Cat 5e 24 AWG (solid) BC Cond. (1583R style)	None	Polyolefin (see chart below)	F-R PVC (1) Blue (1) Green	.195	4.95
									(2) Coax: Series 6 18 AWG (solid) BC Cond. (7916A style)	Duobond IV Quad Shield: 60% & 40% AL Braids 4.8Ω/M′ 15.7Ω/km	Gas-injected Foam Polyethylene	F-R PVC (1) Black (1) White	.298	7.57
									(1) 2-Fiber LANLite: Gigabit Ethernet 62.5µ/125µ/900µ (core/clad/coating) Tight Buffered	None	PVC (1) Blue (1) Orange	F-R PVC (1) Orange	.175	4.45



Third party verified to TIA/EIA-568-B.2, Category 5e
Coax sweep tested to 2.25 GHz and jacket sequentially marked.
Coax shield effectiveness 110dB @ 1GHz.

AL = Aluminum • BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.
Request quotations of cables not listed.

*Duobond IV = Duobond II + 60% aluminum braid + Duofoil® + 40% aluminum braid.

Color Code: Cat 5e UTP

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

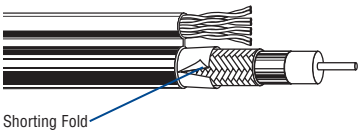
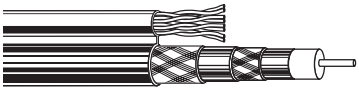
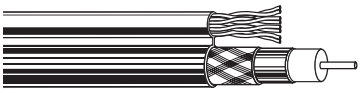
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Composite Data, Audio, Video, Security and Control Cable

Siamese Cables

Category 5e Bonded-Pairs and Category 5

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Overall Nom. OD		Component Descriptions	Shielding Materials & Nom. DCR	Insulation Material & Color Code
			Ft.	m	Lbs.	kg	Inch	mm			
Composite • (1) Cat 5e 4-Bonded-Pair UTP 24 AWG • **(1) Series 6 Coax** w/Duobond Plus® Bonded Tri-Shield											
Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **Overall Green F-R PVC Jacket**											
Siamese Construction  Shorting Fold	**7911A**	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	35.0 60.0	15.9 27.2	.275 x .529	6.99 x 13.44	(1) 4-Pair UTP Data Cables: Cat 5e Bonded-Pairs 24 AWG (solid) BC Cond. (1700R style)	None	Polyolefin (see chart below)
									(1) Coax: Series 6 18 AWG (solid) Bare Copper Cond. (7915A style)	Duobond Plus Bonded Tri-Shield: Duobond® + 77% AL Braid + AL Foil w/ Shorting Fold 4.6Ω/M′ 5.1Ω/km	Gas-injected Foam Polyethylene
Third party verified to TIA/EIA-568-B.2, Category 5e Coax sweep tested to 3.0 GHz and jacket sequentially marked. Coax shield effectiveness 125dB @ 1GHz is better than Quad shield.											
Composite • (1) Cat 5 4-Pair UTP 24 AWG • **(1) Series 6 Coax** w/Duobond IV* Quad Shield											
Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **Overall Green F-R PVC Jacket**											
Siamese Construction 	**7912A**	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	37.5 65.0	17.0 29.5	.297 x .543	7.54 x 13.79	(1) 4-Pair UTP Data Cables: Cat 5e 24 AWG (solid) BC Cond. (1583R style)	None	Polyolefin (see chart below)
									(1) Coax: Series 6 18 AWG (solid) BC Cond. (7916A style)	Duobond IV Quad Shield: 60% & 40% AL Braids 4.8Ω/M′ 15.7Ω/km	Gas-injected Foam Polyethylene
Third party verified to TIA/EIA-568-B.2, Category 5e Coax sweep tested to 3.0 GHz and jacket sequentially marked. Coax shield effectiveness 110dB @ 1GHz.											
Composite • (1) Cat 5 4-Pair UTP 24 AWG • **(1) Series 6 Coax** w/Duobond II* Foil + Braid Shield											
Polyolefin Insulation (Pairs) • **Gas-injected Foam HDPE Insulation** (Coax) • **Overall Green F-R PVC Jacket**											
Siamese Construction 	**7917A**	NEC: CM CEC: CM	1000	304.8	55.0	25.0	.273 x .504	6.93 x 12.80	(1) 4-Pair UTP Data Cables: Cat 5e 24 AWG (solid) BC Cond. (1583R style)	None	Polyolefin (see chart below)
									(1) Coax: Series 6 18 AWG (solid) Bare Copper Cond.	Duobond II: Bonded Foil (100%) + AL Braid (57%) 9.0Ω/M′ 29.5Ω/km	Gas-injected Foam High-density Polyethylene
Third party verified to TIA/EIA-568-B.2, Category 5e Coax sweep tested to 3.0 GHz and jacket sequentially marked.											

AL = Aluminum • BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • HDPE = High-Density Polyethylene • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.
Request quotations of cables not listed.

*Duobond IV = Duobond II + 60% aluminum braid + Duofoil® + 40% aluminum braid.

Color Code: Cat 5e UTP

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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Composite Data, Audio, Video, Security and Control Cable

Keypad and Control Cables
Category 5e Bonded-Pairs and Category 5

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Overall Nom. OD		Component Descriptions	Shielding Materials & Nom. DCR	Insulation Material & Color Code	Component Jacket Material & Colors	Component Nom. OD	
			Ft.	m	Lbs.	kg	Inch	mm					Inch	mm
Composite • (1) STP (Data) 22 AWG (7x30) TC Cond. w/Beldfoil®, Drain Wire • **(2) TC Conductors** (Power) 18 AWG (16x30) Unshielded														
HDFPE Insulation (Data Pair) • **F-R PVC Insulation** (Power Cond.) • **F-R PVC Jacket** (Available in Black, White or Aqua)														
300V 75°C	**1502R**	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	20.0 44.0	9.1 20.0	.250	6.35	Data: (1) Twisted Pair 22 AWG (7x30) TC Cond.	Beldfoil® Shield (100%)	HDFPE Blue, White	F-R PVC	N/A	N/A
									(2) Power Cond.: 18 AWG (16x30) TC Cond.	None	FR-PVC Red, Black	—	N/A	N/A
Rip Cord Sequential footing marking every two feet.														
Composite • (1) Cat 5e 4-Bonded-Pair UTP 24 AWG • **(4) 16 AWG Bare Copper Conductors** Stranded (19x29)														
Polyolefin Insulation (Pairs) • **PVC Insulation** (Conductors) • **Overall Green F-R PVC Jacket**														
	7949A	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	54.5 99.0	24.7 44.9	.355	9.02	(1) 4-Pair UTP Data Cable: Bonded-Pairs 24 AWG (solid) BC Cond.	None	Polyolefin (see chart below)	F-R PVC (1) Blue	.200	5.08
									(4) Conductors: 16 AWG (19x29) BC Cond.	None	PVC Red, White, Green, Black	—	.079	2.01
Jacket sequentially marked. Third party verified to TIA/EIA-568-B.2, Category 5e														
Composite • (1) Cat 5 4-Pair UTP 24 AWG • **(4) 16 AWG Bare Copper Conductors** Stranded (19x29)														
Polyolefin Insulation (Pairs) • **PVC Insulation** (Conductors) • **Overall Green F-R PVC Jacket**														
	7950A	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	54.0 98.0	24.5 44.5	.390	9.91	(1) 4-Pair UTP Data Cable: 24 AWG (solid) BC Cond.	None	Polyolefin (see chart below)	F-R PVC (1) Blue	.195	4.95
									(4) Conductors: 16 AWG (19x.29) BC Cond.	None	PVC Red, White, Green, Black	—	.079	2.01
Jacket sequentially marked. Third party verified to TIA/EIA-568-B.2, Category 5														
Composite • (1) Cat 5 4-Pair UTP 24 AWG • **(4) 18 AWG Bare Copper Conductors** Stranded (19x30)														
Polyolefin Insulation (Pairs) • **PVC Insulation** (Conductors) • **Overall Green F-R PVC Jacket**														
	7951A	NEC: CMR CEC: CMG FT4	500 1000	152.4 304.8	49.0 88.0	22.2 39.9	.407	10.34	(1) 4-Pair UTP Data Cable: 24 AWG (solid) BC Cond.	None	Polyolefin (see chart below)	F-R PVC (1) Blue	.195	4.95
									(4) Conductors: 18 AWG (19x30) BC Cond.	None	PVC Red, White, Green, Black	—	.066	1.68
Jacket sequentially marked. Third party verified to TIA/EIA-568-B.2, Category 5														
Composite • (1) Cat 5 4-Pair UTP 24 AWG • **(4) 14 AWG Bare Copper Conductors** Stranded (19x26)														
Polyolefin Insulation (Pairs) • **PVC Insulation** (Conductors) • **Overall Green F-R PVC Jacket**														
Siamese Construction	**7952A**	NEC: CMR CEC: CMG FT4	500	152.4	58.0	26.3	.289 x .535	7.34 x 13.59	(1) 4-Pair UTP Data Cable: 24 AWG (solid) BC Cond.	None	Polyolefin (see chart below)	F-R PVC (1) Blue	.216	5.49
									(4) Conductors: 14 AWG (19x26) BC Cond.	None	PVC Red, White, Green, Black	—	.99	25.15
Jacket sequentially marked. Third party verified to TIA/EIA-568-B.2, Category 5														

BC = Bare Copper • DCR = DC Resistance • F-R = Flame-retardant • HDFPE = High-density Foam Polyethylene • STP = Shielded Twisted Pair • TC = Tinned Copper • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.
Request quotations of cables not listed.

Color Code: Cat 5e UTP

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

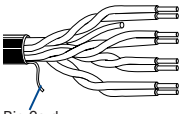
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Data and Voice Cable

Category 6 UTP Cables

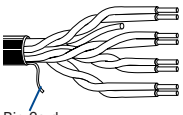
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
23 AWG Solid Bare Copper Conductors • Twisted Pairs • Central Rod Filler • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)																			
75°C	**7881A**	NEC:	4	1000	304.8	30.0	13.6	.235	5.97	8.2	5.0	330	1	2.0	72.3	70.3	64.8	100±15	20.0
		CMR		A-1000	A-304.8	33.0	15.0						10	6.0	57.3	51.3	44.8	100±15	25.0
		CEC:											20	8.5	52.8	44.3	38.7	100±15	25.0
		CMR FT4											31.25	10.7	49.9	39.2	34.9	100±15	23.6
													62.5	15.4	45.4	30.0	28.8	100±15	21.5
													100	19.8	42.3	22.5	24.8	100±15	20.1
													200	29.0	37.8	8.8	18.7	100±22	18.0
													250	32.8	36.3	3.5	16.8	100±32	17.3



Rip Cord

Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2-1, Category 6

Plenum • FRPO/FEP Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Natural or Black)																			
75°C	**7882A**	NEC:	4	1000	304.8	29.0	13.2	.224	5.69	8.2	5.0	330	1	2.0	72.3	70.3	64.8	100±15	20.0
		CMP		A-1000	A-304.8	32.0	14.5						10	6.0	57.3	51.3	44.8	100±15	25.0
		CEC:											20	8.5	52.8	44.3	38.7	100±15	25.0
		CMP FT6											31.25	10.7	49.9	39.2	34.9	100±15	23.6
													62.5	15.4	45.4	30.0	28.8	100±15	21.5
													100	19.8	42.3	22.5	24.8	100±15	20.1
													200	29.0	37.8	8.8	18.7	100±22	18.0
													250	32.8	36.3	3.5	16.8	100±32	17.3



Rip Cord

Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene-Propylene • FRPO = Flame-retardant Polyolefin • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

For a complete selection of Belden® Data Cables, refer to the Commercial Networking: Copper section of this catalog.

Color Codes

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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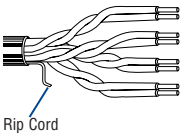
Data and Voice Cable

Enhanced Category 5e UTP Cables

24 AWG Bonded-Pairs Solid Bare Copper Conductors • Rip Cord • See Color Code Chart (below)

Non-Plenum • Polyolefin Insulation • PVC Jacket (Red, Orange, White, Yellow, Green, Blue, Purple, or Gray)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
80°C	**1700R**	NEC:	4	U-1000	U-304.8	21.0	9.5	.204	5.18	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0
		CMR		1000	304.8	22.0	10.0						4	4.0	56.3	52.3	48.7	100±12	23.0
		CEC:		3000▲	914.4	63.0	28.6						8	5.7	51.8	46.1	42.7	100±12	24.5
		CMR FT4											10	6.4	50.3	43.9	40.8	100±12	25.0
													16	8.1	47.3	39.1	36.7	100±12	25.0
													25	10.3	44.3	34.1	32.8	100±15	24.3
													31.25	11.6	42.9	31.3	30.9	100±15	23.6
													62.5	16.8	38.4	21.6	24.8	100±15	21.5
													100	21.7	35.3	17.1	20.8	100±15	20.1
													155	27.7	32.5	4.7	16.9	100±18	19.0
													200	32.0	30.8	3.0	14.7	100±20	19.0
													250	36.4	29.3	—	12.8	100±20	18.0
													350	44.3	27.2	—	9.9	100±22	17.0

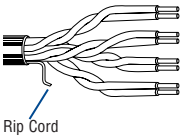


Tested to 350 MHz.

Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
▲3000 ft. put-up not available in Orange, Yellow nor Green.

Plenum • FEP Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Natural or Black)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
75°C	**1701A**	NEC:	4	U-1000	U-304.8	23.0	10.5	.193	4.90	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0
		CMP		1000	304.8	24.0	10.9						4	4.0	56.3	52.3	48.7	100±12	23.0
		CEC:		3000◆	914.4	69.0	31.3						8	5.7	51.8	46.1	42.7	100±12	24.5
		CMP FT6											10	6.4	50.3	43.9	40.8	100±12	25.0
													16	8.1	47.3	39.1	36.7	100±12	25.0
													25	10.3	44.3	34.1	32.8	100±15	24.3
													31.25	11.6	42.9	31.3	30.9	100±15	23.6
													62.5	16.8	38.4	21.6	24.8	100±15	21.5
													100	21.7	35.3	17.1	20.8	100±15	20.1
													155	27.7	32.5	4.7	16.9	100±18	19.0
													200	32.0	30.8	3.0	14.7	100±20	19.0
													250	36.4	29.3	—	12.8	100±20	18.0
													350	44.3	27.2	—	9.9	100±22	17.0



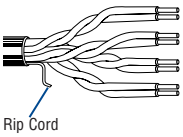
Tested to 350 MHz.

Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
◆3000 ft. put-up available in Blue or Natural only.

24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)

Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, White, Blue or Gray)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
80°C	**1500R**	NEC:	4	1000	304.8	24.0	10.9	.194	4.93	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0
		CMR		A-1000	A-304.8	27.0	12.3						4	4.0	56.3	52.3	48.7	100±12	23.0
		CEC:											8	5.7	51.8	46.1	42.7	100±12	24.5
		CMR FT4											10	6.4	50.3	43.9	40.8	100±12	25.0
													16	8.1	47.3	39.1	36.7	100±12	25.0
													25	10.3	44.3	34.1	32.8	100±15	24.3
													31.25	11.6	42.9	31.3	30.9	100±15	23.6
													62.5	16.8	38.4	21.6	24.8	100±15	21.5
													100	21.7	35.3	17.1	20.8	100±15	20.1
													155	27.7	32.5	4.7	16.9	100±18	19.0
													200	32.0	30.8	3.0	14.7	100±20	19.0
													250	36.4	29.3	—	12.8	100±20	18.0
													350	44.3	27.2	—	9.9	100±22	17.0



Tested to 350 MHz.

Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene-Propylene • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

For a complete selection of Belden® Data Cables, refer to the Commercial Networking: Copper section of this catalog.

Color Codes

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

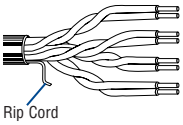
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Data and Voice Cable

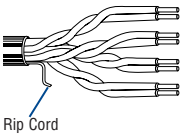
Category 5e UTP Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray, White or Pink)																			
80°C	**1583R**	NEC:	4	U-1000	U-304.8	21.0	9.5	.197	5.00	9.38	3.0	330	1	2.0	62.3	60.0	60.8	100±15	20.0
		CMR		1000	304.8	22.0	10.0						4	4.1	53.3	49.0	48.7	100±15	23.0
		CEC:		3000▲	914.4	63.0	28.6						10	6.5	47.3	41.0	40.8	100±15	25.0
		CMR FT4											16	8.2	44.3	36.0	36.7	100±15	25.0
													31.25	11.7	39.9	28.0	30.9	100±15	23.6
													62.5	17.0	35.4	19.0	24.8	100±15	21.5
													100	22.0	32.3	11.0	20.8	100±15	20.1
													200	32.0	27.8	1.0	14.7	100±25	15.0



Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2, Category 5e
▲3000 ft. put-ups available in Gray, White or Blue only.

Plenum • FRPO/FEP Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Blue, Gray, White, Natural, Black or Pink)																			
75°C	**1585A**	NEC:	4	U-1000	U-304.8	23.0	10.5	.195	4.95	9.38	3.0	330	1	2.0	62.3	60.0	60.8	100±15	20.0
		CMP		1000	304.8	24.0	10.9						4	4.1	53.3	49.0	48.7	100±15	23.0
		CEC:		3000◆	914.4	69.0	31.4						10	6.5	47.3	41.0	40.8	100±15	25.0
		CMP FT6											16	8.2	44.3	36.0	36.7	100±15	25.0
													31.25	11.7	39.9	28.0	30.9	100±15	23.6
													62.5	17.0	35.4	19.0	24.8	100±15	21.5
													100	22.0	32.3	11.0	20.8	100±15	20.1
													200	32.0	27.8	1.0	14.7	100±25	15.0



Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2, Category 5e
◆3000 ft. put-up available in Natural or Blue only.

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene-Propylene • FRPO = Flame-retardant Polyolefin • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

For a complete selection of Belden® Data Cables, refer to the Commercial Networking: Copper section of this catalog.

Color Codes

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

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Video/RF Cable

Broadband CATV and DBS Coaxial Cables
Series 6 (RG-6/U Type)

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Series 6 • 18 AWG Solid .040″ Bare Copper Conductor • Duobond® + Aluminum Braid(s) Shield																			
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in Black or White)																			
80°C	**7915A**	NEC:	U-500	U-152.4	16.5	7.5	18 AWG	.180	4.57	Duobond	.275	6.99	75	83%	16.2	53.2	5	.5	1.6
		CATV CM	500	152.4	18.0	8.2	(solid)			Plus®+							55	1.4	4.6
		CEC:	U-1000	U-304.8	31.0	14.1	.040″			77% & 80%							211	2.6	8.5
		CM	1000	304.8	31.0	14.1	BC			Aluminum							500	4.1	13.5
							6.4Ω/M′			Braid							750	5.1	16.7
							21.0Ω/km			4.6Ω/M′							862	5.5	18.0
										15.1Ω/km							1000	6.0	19.7
																	1450	7.8	25.6
																	1800	8.4	27.6
																	2250	9.8	32.2
Shorting Fold											Sweep tested 5 MHz to 3.0 GHz.								
Shielding effectiveness is 125dB @ 1GHz.																			
80°C	**7916A**	NEC:	U-500	U-152.4	18.5	8.4	18 AWG	.180	4.57	Duobond IV*	.298	7.57	75	83%	16.2	53.2	5	.5	1.6
		CATV CM	500	152.4	19.5	8.9	(solid)			+							55	1.4	4.6
		CEC:	U-1000	U-304.8	35.0	15.9	.040″			60% & 40%							211	2.6	8.5
		CM	1000	304.8	35.0	15.9	BC			Aluminum							500	4.1	13.5
							6.4Ω/M′			Braids							750	5.1	16.7
							21.0Ω/km			4.8Ω/M′							862	5.5	18.0
										15.7Ω/km							1000	6.0	19.7
																	1450	7.8	25.6
																	1800	8.4	27.6
																	2250	9.8	32.2
											Sweep tested 5 MHz to 3.0 GHz.								
Shielding effectiveness is 125dB @ 1GHz.																			
Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in Black, Gray or White)																			
80°C	**1829AC**	NEC:	U-1000†	U-304.8	29.0	13.2	18 AWG	.180	4.57	Duobond II	.270	6.86	75	83%	16.2	53.2	5	.5	1.6
		CATV CM	1000††	304.8	30.0	13.6	(solid)			+ 60%							55	1.4	4.6
		CEC:					.040″			Aluminum							211	2.6	8.5
		CM					BC			Braid							500	4.1	13.5
							6.4Ω/M′			9.0Ω/M′							750	5.1	16.7
							21.0Ω/km			29.5Ω/km							862	5.5	18.0
																	1000	6.0	19.7
																	1450	7.8	25.6
																	1800	8.6	28.9
																	2250	9.8	32.2
																	3000	11.3	39.0
											Sweep tested 950 MHz to 2.25 GHz.								
†U-1000 ft. put-up not available in White. ††1000 ft. put-up not available in Gray.																			
80°C	**1841AC**	NEC:	500	152.4	33.5	15.2	18 AWG	.180	4.57	Duobond II	.273	6.93	75	83%	16.2	53.2	5	.5	1.6
		CATV CM					(solid)			+ 60%	x	x					55	1.4	4.6
		CEC:					.040″			Aluminum	.595	15.11					211	2.6	8.5
		CM					BC			Braid							500	4.1	13.5
							6.4Ω/M′			9.0Ω/M′							750	5.1	16.7
							21.0Ω/km			29.5Ω/km							862	5.5	18.0
																	1000	6.0	19.7
																	1450	7.8	25.6
																	1800	8.4	28.2
																	2250	10.1	32.2
																	3000	11.3	39.0
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
	7916AP new	NEC:	U-1000	U-304.8	32.0	14.5	18 AWG	.170	4.32	Duobond IV*	.248	6.30	75	83%	16.3	53.5	1	.3	1.0
		CATV CMP	1000	304.8	31.0	14.1	(solid)			+							10	.7	2.2
		CEC:					.040″			60% & 40%							50	1.6	5.3
		CMP FT6					BC			Aluminum							100	2.2	7.2
							6.4Ω/M′			Braids							200	3.0	9.8
							21.0Ω/km			4.8Ω/M′							400	4.6	15.1
										15.7Ω/km							700	6.6	21.7
																	900	7.7	25.3
																	1000	8.2	26.9
											Sweep tested 5 MHz to 3 GHz.								

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.
For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

*Duobond IV = Duobond II + 60% aluminum braid + Duofoil® tape + 40% aluminum braid.

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Video/RF Cable

Broadband CATV Coaxial Cables
Series 6 (RG-6/U Type)

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Duobond® II* + Aluminum Braid Shield (60% Coverage)

Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in Black, White or White Neutral)

80°C	**9116**	NEC: CATV CM CEC: CM	U-1000▲ 1000	U-304.8 304.8	30.0 31.0	13.6 14.1	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II* + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.2	See Chart on page 6.92		

▲U-1000 ft. put-up also available in Beige.

Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in Black, White, Gray or Neutral)

80°C	**1829A**	NEC: CATV CM CEC: CM	U-1000 1000	U-304.8 304.8	29.0 29.0	13.2 13.2	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.2	5	.5	1.6
																	55	1.4	4.6
																	211	2.6	8.5
																	500	4.1	13.5
																	750	5.1	16.7
																	862	5.5	18.0
																	1000	6.0	19.7
																	1450	7.8	25.6
																	1800	8.6	28.2
																	2250	9.8	32.2
																	3000	11.3	37.1
80°C	**1829R** new	NEC: CATVR, CMR CEC: CMG FT4	U-1000◆	U-304.8	29.0	13.2	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond II + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.270	6.86	75	83%	16.2	53.2	5	.5	1.6
																	55	1.4	4.6
																	211	2.6	8.5
																	500	4.1	13.5
																	750	5.1	16.7
																	862	5.5	18.0
																	1000	6.0	19.7
																	1450	7.8	25.6
																	1800	8.6	28.2
																	2250	9.8	32.2
																	3000	11.3	37.1

Sweep tested 950 MHz to 2.25 GHz.

◆U-1000 ft. put-up not available in Neutral.

Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

75°C	**1829P** new	NEC: CATVP, CMP CEC: CMP FT6	U-1000 1000	U-304.8 304.8	27.0 27.0	12.3 12.3	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	Duobond II + 60% Aluminum Braid 9.0Ω/M′ 29.5Ω/km	.235	5.97	75	83%	16.3	53.5	1	.3	1.0
																	10	.7	2.2
																	50	1.5	4.9
																	100	2.1	6.9
																	200	3.0	9.8
																	400	4.4	14.4
																	700	6.1	20.0
																	900	7.2	23.6
																	1000	7.6	24.9
																	1450	9.6	31.5
																	1800	11.0	36.1
																	2250	12.7	41.7
																	3000	15.1	49.5

Sweep tested 5 MHz to 3.0 GHz.

Series 6 • 18 AWG Solid .040″ Bare Copper-covered Steel Conductor • Duobond® IV* Quad Shield (60% and 40% Coverage)

Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in Black or White)

80°C	**1189A**	NEC: CATV CM CEC: CM	U-500 U-1000 1000▼	U-152.4 U-304.8 304.8	18.0 35.0 35.0	8.2 15.9 15.9	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.180	4.57	Duobond IV 60% & 40% Aluminum Braids 4.8Ω/M′ 15.7Ω/km	.298	7.57	75	83%	16.2	53.2	See Chart on page 6.88		

Sweep tested 5 MHz to 1 GHz.

▼1000 ft. put-up also available in Beige or Neutral.

Plenum • Foam FEP Insulation • Natural Flamarrest Jacket

75°C	**1189AP**	NEC: CATVP CMP CEC: CMP FT6	1000†	304.8	32.0	14.5	18 AWG (solid) .040″ BCCS 28.0Ω/M′ 91.9Ω/km	.170	4.32	Duobond IV 60% & 40% Aluminum Braids 4.8Ω/M′ 15.7Ω/km	.248	6.30	75	83%	16.3	53.5	1	.3	1.0
																	10	.7	2.2
																	50	1.6	5.2
																	100	2.2	7.2
																	200	3.0	9.8
																	400	4.6	15.1
																	700	6.6	21.7
																	900	7.7	25.3
																	1000	8.2	26.9

Sweep tested 5 MHz to 1 GHz.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (60% coverage).
Duobond IV = Duobond II + 60% aluminum braid + Duofoil® tape + 40% aluminum braid.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.
For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

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Video Cable

Precision Video Cables for Analog and Digital Applications
RG-6/U and RG-59/U Types

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

RG-6/U Type • 18 AWG Solid .040″ Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*

SDI/HDTV Digital Video 75°C	**1694A**	NEC:	500▲	152.4	20.5	9.3	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duofoil + 95% TC Braid 2.8Ω/M′ 9.2Ω/km	.274	6.96	75	82%	16.2	53.2	1	.2	.8
		CMR	1000	304.8	45.0	20.5											3.6	.5	1.5
		CEC:	4500	1371.6	202.5	91.9											10	.7	2.4
		CMG FT4															71.5	1.6	5.2
																	135	2.1	6.9
											For Plenum version of 1694A, see 1695A.						270	3.0	9.7
																	360	3.4	11.3
											Also available in bundled versions. See 7710A through 7713A.						540	4.3	13.9
																	720	4.9	16.1
																	750	5.0	16.4
											100% Sweep tested. 5 MHz to 3 GHz.						1000	5.9	19.3
																	1500	7.3	24.0
																	2250	9.1	30.0
																	3000	10.7	35.0
																	4500	13.3	43.6



▲500 ft. put-up available in Black only.
*Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or White.
Black jacket suitable for Outdoor and Aerial applications.

Plenum • Foam FEP Teflon® Insulation • Flamarrest® Jacket (Available in 10 colors)**

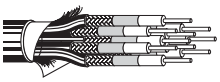
SDI/HDTV Digital Video 75°C	**1695A**	NEC:	500†◆	152.4	20.5	9.3	18 AWG (solid) . 040″ BC 6.4Ω/M′ 21.0Ω/km	.170	4.32	Duofoil + 95% TC Braid 2.8Ω/M′ 9.2Ω/km	.234	5.94	75	82%	16.2	53.2	1	.2	.8
		CMP	1000†	304.8	45.0	20.5											3.6	.5	1.5
		CEC:															10	.8	2.5
		CMP FT6															71.5	1.8	5.8
																	135	2.4	7.9
																	270	3.4	11.2
																	360	4.0	13.1
											100% Sweep tested. 5 MHz to 3 GHz.						540	5.2	17.1
																	720	6.1	20.0
																	750	6.2	20.3
																	1000	7.3	24.0
																	1500	9.2	30.2
																	2250	11.6	38.0
																	3000	13.7	44.9



◆500 ft. put-up available in Black or Natural only.
**Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or Natural.
Black jacket suitable for Outdoor and Aerial applications.

Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)

SDI/HDTV Digital Video 75°C **(1694A Bundled)**	**7713A**	NEC:	500	152.4	463.0	210.0	18 AWG (solid) .040″ BC 6.4Ω/M′ 21.0Ω/km	.180	4.57	Duofoil + 95% TC Braid 3.0Ω/M′ 9.8Ω/km	1.386	35.20	75	82%	16.2	53.2	1	.2	.8
		CMR	1000	304.8	904.0	410.4		Coax OD:									3.6	.5	1.5
		CEC:						.275	6.99								10	.7	2.4
		CMG FT4															71.5	1.6	5.2
																	135	2.1	6.9
											7713A has ten conductors. For other bundled versions of 1694A see 7710A through 7712A.						270	3.0	9.7
																	360	3.4	11.3
																	540	4.3	13.9
																	720	4.9	16.1
											100% Sweep tested. 5 MHz to 3 GHz.						750	5.0	16.4
																	1000	5.9	19.3
																	1500	7.3	24.0
																	2500	9.1	31.8
																	3000	10.7	35.0



RG-59/U Type • 20 AWG Solid .032″ Bare Copper Conductor • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*

SDI/HDTV Digital Video 75°C	**1505A**	NEC:	500▼	152.4	15.5	7.0	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.145	3.68	Duofoil + 95% TC Braid 3.8Ω/M′ 12.5Ω/km	.233	5.92	75	83%	16.3	53.5	1	.3	1.0
		CMR	1000✦	304.8	35.0	15.9											3.6	.6	1.8
		CEC:	5000✦	1524.0	165.0	74.9											10	.9	2.9
		CMG FT4															71.5	2.1	6.9
																	135	2.7	8.9
											For Plenum version of 1505A, see 1506A.						270	3.8	12.5
																	360	4.4	14.4
											Also available in bundled versions. See 7794A through 7798A.						540	5.5	18.0
																	720	6.4	21.0
																	750	6.5	21.3
											100% Sweep tested. 5 MHz to 3 GHz.						1000	7.6	24.9
																	1500	9.3	30.5
																	2250	11.6	38.0
																	3000	13.4	44.0
																	4500	16.4	53.8



▼500 ft. put-up available in Black, Red or Blue only.
✦1000 ft. and 5000 ft. put-ups available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or White.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

†Spools are one piece, but length may vary ±10% from length shown.

Teflon is a DuPont trademark.

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	6	Brown
2	Green	7	Orange
3	Blue	8	Gray
4	White	9	Purple
5	Yellow	10	Black

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Video Cable

Precision Video Cables for Analog and Digital Applications
Subminiature and Standard Analog RG-59/U Types

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
Subminiature RG-59/U Type • 23 AWG Solid .023″ Bare Copper Conductor • Duofoil® (100% Coverage) + TC Braid Shield (95% Coverage)																			
Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*																			
SDI/HDTV Digital Video 75°C	**1855A**	NEC: CMR CEC: CMG FT4	500▲ 1000	152.4 304.8	9.0 16.0	4.1 7.3	23 AWG (solid) .023″ BC 20.1Ω/M′ 65.9Ω/km	.102	2.59	Duofoil + 95% TC Braid 7.6Ω/M′ 24.9Ω/km	.159	4.03	75	82%	16.3	53.5	1	.4	1.3
																	3.6	.8	2.6
																	10	1.2	3.9
																	71.5	3.1	10.0
																	135	3.8	12.5
																	270	5.4	17.7
											Also available in multiples, bundled. See 7787A through 7792A.						360	6.2	20.3
																	540	7.7	25.3
											100% Sweep tested. 5 MHz to 3 GHz.						720	9.5	31.1
																	750	9.6	31.5
																	1000	10.5	34.4
																	1500	13.0	42.6
																	2250	16.0	52.5
																	3000	18.5	60.7
▲500 ft. put-up available in Black only.																	4500	22.8	74.8
Standard Analog • RG-59/U Type • 23 AWG Solid .023″ Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)																			
Polyethylene Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C)	**8241B**	NEC: CM CEC: CM	U-1000 1000	U-304.8 304.8	36.0 37.0	16.3 16.8	23 AWG (solid) .023″ BC 20.4Ω/M′ 66.9Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M′ 9.5Ω/km	.242	6.15	75	66%	20.5	67.3	1	.4	1.3
																	10	1.1	3.6
																	50	2.4	7.9
																	100	3.4	11.2
																	200	4.9	16.1
																	400	7.0	23.0
																	700	9.7	31.8
																	900	11.1	36.4
Suitable for Outdoor applications.																	1000	12.0	39.4

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.
For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

*Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.

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Video Cable

Bundled RGB Precision Video Cable and Miniature Hi-Res Component Video Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
25 AWG Solid .018″ Tinned Copper Conductors • Duobond® + Tinned Copper Interlocked Serve Shield (95% Coverage)																				
FPFA Insulation • Inner PVC Jacket (Color Code: Red, Green, Blue, White, Yellow) **• Overall Black PVC Jacket**																				
300V RMS 60°C 	**1277R** new	NEC: CMR CEC: CMG	3	500† 1000†	152.4 304.8	25.5 48.0	11.6 21.8	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.074 Coax OD: .114	1.88 2.90	Duobond + 95% TC Braid 5.4Ω/M′ 17.7Ω/km	.320	8.13	75	80%	17.0	55.8	1 5 50 100 200 400 750 900 1000 3000	.5 1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8 31.2	1.7 3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8 102.4
	1278R new	NEC: CMR CEC: CMG	4	500† 1000†	152.4 304.8	31.5 60.0	14.3 27.2	same as above	.074 Coax OD: .114	1.88 2.90	same as above	.351	8.92							
	1279R new	NEC: CMR CEC: CMG	5	250† 500† 1000†	76.2 152.4 304.8	21.8 40.5 80.0	9.9 18.4 36.3	same as above	.074 Coax OD: .114	1.88 2.90	same as above	.403	10.24							
	1280R new	NEC: CMR CEC: CMG	6	500† 1000†	152.4 304.8	44.0 87.0	20.0 39.5	same as above	.074 Coax OD: .114	1.88 2.90	same as above	.423	10.74							
Miniature • 25 AWG Solid .018″ Tinned Copper Conductors • Duobond® (100% Coverage) + TC Braid Shield (95% Coverage)																				
Plenum • FPFA Insulation • Black Flamarrest® Jacket																				
	**1282P** new	NEC: CMP CEC: CMP FT6	1	1000	304.8	10.0	4.5	25 AWG (solid) .018″ TC 31.8Ω/M′ 104.3Ω/km	.074	1.88	Duobond (100%) + TC Braid 5.8Ω/M′ 19.0Ω/km	.114	2.90	75	81%	17.0	55.2	1 5 50 100 200 400 700 900 1000 3000	.4 .9 3.7 5.0 7.0 10.0 14.5 17.0 17.5 37.0	1.3 3.0 12.1 16.4 23.0 32.8 47.6 55.8 57.4 121.4

100% Sweep tested. 5 MHz to 850 MHz.

Sweep Tested 5 MHZ to 850 MHz.
Guaranteed Return Loss -20dB Max.

BC = Bare Copper • DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.

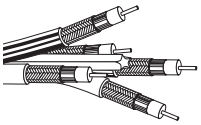
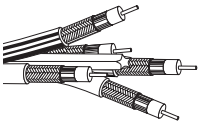
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Video Cable

RGB Component Video Cable

Banana Peel® Unjacketed Bundles Mini Hi-Res Component Video

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
Miniature • 25 AWG Solid .018″ TC Conductors • Duobond® (100% Coverage) + TC Interlocked Serve Shield (95% Coverage)																				
Gas-injected Foam HDPE Insulation • PVC Jackets (Color Code: See chart below) • **Center Spline • No Overall Jacket**																				
	**1281S3** new	NEC: CMR CEC: CMG	3	500† 1000†	152.4 304.8	17.0 31.0	7.7 14.1	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.074	1.88	Duobond (100%) + TC Serve (95%) 5.4Ω/M′ 17.7Ω/km	Single: .114 Overall: .246	2.90 6.25	75	80%	17.0	.8	1 5 50 100 200 400 750 900 1000 3000	.5 1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8 31.2	1.7 3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8 102.4
	1281S4 new	NEC: CMR CEC: CMG	4	500† 1000†	152.4 304.8	23.5 44.0	10.7 20.0	same as above	.074	1.88	same as above	Single: .114 Overall: .275	2.90 6.99							
	1281S5 new	NEC: CMR CEC: CMG	5*	250† 500† 1000†	76.2 152.4 304.8	16.0 28.5 55.0	7.3 12.9 25.0	same as above	.074	1.88	same as above	Single: .114 Overall: .308	2.90 7.82							
	1281S6 new	NEC: CMR CEC: CMG FT4	6*	500† 1000†	152.4 304.8	33.5 68.0	15.2 30.8	same as above	.074	1.88	same as above	Single: .114 Overall: .342	2.90 8.69							
Plenum • FPFA • Flamarrest® Jackets (Color Code: See chart below) • **Center Spline • No Overall Jacket**																				
	**1282S3** new	NEC: CMP CEC: CMP	3	500 1000	152.4 304.8	18.5 34.0	8.4 15.4	25 AWG (solid) .018″ TC 34.0Ω/M′ 111.6Ω/km	.075	1.91	Duobond (100%) + TC Serve (95%) 5.4Ω/M′ 17.7Ω/km	Single: .114 Overall: .246	2.90 6.25	75	81%	16.8	55.2	1 5 50 100 200 400 750 1000 2250 3000	.5 1.2 3.8 5.2 7.1 10.0 14.3 16.9 25.5 33.9	1.6 3.9 12.1 17.1 23.1 32.9 47.0 55.4 83.6 111.3
	1282S4 new	NEC: CMP CEC: CMP	4	500 1000	152.4 304.8	25.5 49.0	11.6 22.2	same as above	.075	1.91	same as above	Single: .114 Overall: .275	2.90 6.99							
	1282S5 new	NEC: CMP CEC: CMP	5*	250 500 1000	76.2 152.4 304.8	18.0 33.0 67.0	8.2 15.0 30.4	same as above	.075	1.91	same as above	Single: .114 Overall: .308	2.90 7.82							
	1282S6 new	NEC: CMP CEC: CMP	6*	500 1000	152.4 304.8	39.5 80.0	17.9 36.3	same as above	.075	1.91	same as above	Single: .114 Overall: .342	2.90 8.69							

100% Sweep tested. 5 MHz to 850 MHz. Guaranteed Return Loss -20db max.

U.S. Patent 7,049,523.

DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.
*Also available with all Black jackets.

Color Code Chart:

Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

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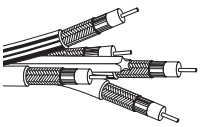
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Video Cable

RGB Coaxial Cable

Banana Peel® Unjacketed VideoFLEX® Bundles, RG-59/U Type

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
				Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-59/U • 20 AWG Solid .032″ Bare Copper Conductors • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)																				
Plenum • Foam FEP Insulation • Plenum-Grade PVC Jackets (Color Code: See chart below) **• Center Spline • No Overall Jacket**																				
300V RMS	**1283S3** new	NEC:	3	250	76.2	26.3	11.9	20 AWG (solid) .032″ BC 10.0Ω/M′ 32.8Ω/km	.133	3.38	Duofoil (95%) + TC Braid 3.8Ω/M′ 12.5Ω/km	.422	10.72	75	83%	16.2	53.2	1	.3	1.0
		CMP		500	152.4	54.0	24.5											3.6	.6	2.0
		CEC:		1000	304.8	103.0	46.7											10	.9	2.9
		CMP																71.5	2.1	6.9
																		135	2.7	8.9
																		270	3.8	12.5
																		360	4.4	14.4
																		540	5.5	18.0
																		720	6.4	21.0
	1283S5 new	NEC:	5	250	76.2	43.5	19.7	same as above	.133	3.38	same as above	.529	13.44					750	6.5	21.3
		CMP		500	152.4	88.0	39.9											1000	7.6	24.9
		CEC:		1000	304.8	174.0	78.9											1500	9.4	30.8
		CMP																2500	12.4	40.7
																		3000	13.8	45.3
	1283S6 new	NEC:	6	250	76.6	59.0	26.8	same as above	.133	3.38	same as above	.588	14.94							
		CMP		500	152.4	108.0	49.0													
		CEC:		1000	304.8	209.0	94.8													
		CMP																		



Sweep tested. 5 MHz to 3 GHz.

U.S. Patent 7,049,523.

Suitable for Indoor and Outdoor applications.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Color Code Chart:

Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

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Video Cable

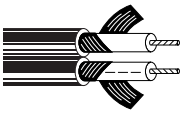
High-Flex S-Video Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
				Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

High-Flex S-Video • 30 AWG Stranded (7x38) Tinned Copper Conductors • Tinned Copper Serve Shield (90% Coverage)

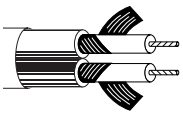
Foam HDPE Insulation • Matte Black PVC Jacket (One Coax Printed and Striped for Identification)

Parallel Zip Construction	**1807A**	2	U-500	U-152.4	8.0	3.6	30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km	.056	1.42	TC Serve 90% Shield Coverage 7.5Ω/M′ 24.6Ω/km	.110 x .230	2.79 x 5.84	75	78%	17.3	56.7	1	.6	2.0
			500	152.4	7.5	3.4											5	1.4	4.6
			U-1000	U-304.8	15.0	6.8											10	2.1	6.9
			1000	304.8	14.0	6.4											30	3.8	12.5
																	50	5.1	16.7
												For Plenum version of 1807A, see 7700A.					100	7.6	24.9
																	200	11.3	37.1
																	400	16.9	55.4
																	700	23.3	76.4
																	900	26.9	88.2
																	1000	28.6	93.8



Foam HDPE Insulation • Matte Black PVC Jacket (Inner PVC Jackets Color Code: Black and Yellow)

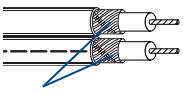
Round Construction	**1808A** new	2	U-500	U-152.4	14.5	6.6	30 AWG (7x38) .013″ TC 100.0Ω/M′ 328.0Ω/km	.058 Coax OD: .100	1.47 2.54	TC Serve 90% Shield Coverage 7.5Ω/M′ 24.6Ω/km	.255	.84	75	78%	17.3	56.7	1	.6	2.0
			500	152.4	16.5	7.5											5	1.4	4.6
			U-1000	U-304.8	31.0	14.1											10	2.1	6.9
			1000	304.8	33.0	15.0											30	3.8	12.5
																	50	5.1	16.7
												Available in Plenum versions by special order only.					100	7.6	24.9
																	200	11.3	37.1
																	400	16.9	55.4
																	700	23.3	76.4
																	900	26.9	88.2
																	1000	28.6	93.8



High-Flex S-Video • 30 AWG Stranded (7x38) .012″ Tinned Copper Conductors • Tinned Copper "French Braid" Shield (98% Coverage)

Plenum • Foam FEP Teflon® Insulation • Matte Black Flamarrest® Jacket (One Coax Printed and Striped for Identification)

Parallel Zip Construction	**7700A** new	NEC: CMP CEC: CMP FT6	2	500	152.4	8.5	3.9	30 AWG (7x38) .012″ TC 100.0Ω/M′ 328.0Ω/km	.053	1.35	TC "French Braid" 98% Shield Coverage 7.5Ω/M′ 24.6Ω/km	.107 x .214	2.72 x 5.44	75	78%	17.3	56.7	1	.5	2.3
				1000	304.8	17.0	7.7										5	1.7	5.6
																	10	2.3	7.5
																	30	4.1	13.4
																	50	5.3	17.4
																	100	7.6	24.9
																	200	11.8	38.7
																	400	17.6	57.7
																	700	24.2	79.4
																	900	28.0	91.8
																	1000	29.8	97.7



French Braid

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.
For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

Teflon is a DuPont trademark.

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Speaker Cable

Low-Capacitance OFHC Speaker Cable

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance*	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	pF/Ft.	pF/m
Low Cap • 16 AWG Stranded (65x34) Oxygen-free High-Conductivity Bare Copper Conductors • Conductors Cabled • Unshielded															
Polyolefin Insulation • PVC Jacket (Available in Black, White, Gray, Blue or Green)															
	**1307A** new	NEC: CMR, CL3R CEC: CMG FT4	2	U-500 1000†	U-152.4 304.8	15.0 29.0	6.8 13.2	.013	.32	.022	.56	.210	5.33	19.9	65.3
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
	**1308A** new	NEC: CMR, CL3R CEC: CMG FT4	4	U-500 1000†	U-152.4 304.8	26.5 54.0	12.0 24.5	.013	.32	.026	.66	.270	6.86	19.9	65.3
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
Low Cap • 14 AWG Stranded (105x34) Oxygen-free High-Conductivity Bare Copper Conductors • Conductors Cabled • Unshielded															
Polyolefin Insulation • PVC Jacket (Available in Black, White, Gray, Blue or Green)															
For Audio Use Only 	**1309A** new	NEC: CMR, CL3R CEC: CMG FT4	2	U-500 1000†	U-152.4 304.8	22.5 46.0	10.2 20.9	.016	.39	.027	.69	.264	6.71	20.5	67.3
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
For Audio Use Only 	**1310A** new	NEC: CMR, CL3R CEC: CMG FT4	4	U-500 1000†	U-152.4 304.8	41.5 84.0	18.8 38.1	.016	.39	.033	.94	.319	8.10	20.5	67.3
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
Low Cap • 12 AWG Stranded (168x34) Oxygen-free High-Conductivity Bare Copper Conductors • Conductors Cabled • Unshielded															
Polyolefin Insulation • PVC Jacket (Available in Black, White or Gray)															
For Audio Use Only 	**1311A** new	NEC: CMR, CL3R CEC: CMG FT4	2	U-500 500 1000†	U-152.4 152.4 304.8	36.5 36.5 74.0	16.6 16.6 33.6	.018	.46	.036	.91	.352	8.94	22.3	73.2
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
For Audio Use Only 	**1312A** new	NEC: CMR, CL3R CEC: CMG FT4	4	500 1000†	152.4 304.8	66.5 132.0	30.2 59.9	.018	.46	.043	1.09	.423	10.74	22.3	73.2
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															
Low Cap • 10 AWG Stranded (259x34) Oxygen-free High-Conductivity Bare Copper Conductors • Conductors Cabled															
Polyolefin Insulation • PVC Jacket (Available in Black, White or Gray)															
For Audio Use Only 	**1313A** new	NEC: CMR, CL3R CEC: CMG FT4	2	500 1000†	152.4 304.8	55.0 109.0	25.0 49.5	.019	.48	.044	1.12	.428	10.87	23.2	76.1
Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.															

OFHC = Oxygen-Free High-Conductivity

*Capacitance between conductors.

†1000 ft. put-ups not available in Blue or Green.

Color Code Chart

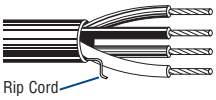
Cond.	Color
1	Black
2	Red
3	White
4	Green

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Speaker Cable

Multi-conductor Cables for Residential, Light Commercial and Institutional Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Outer Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
Multi-conductor • 16 AWG Stranded (19x29) Bare Copper Conductors • Rip Cord														
Non-Plenum • PVC Insulation • Gray PVC Jacket														
300V 75°C	**5200UE**	NEC: CMR CEC: CMG FT4	2	Black, Red	C-500 U-500 500 U-1000 1000	C-152.4 U-152.4 152.4 U-304.8 304.8	11.5 13.0 12.5 25.0 25.0	5.2 5.9 5.7 11.4 11.4	.010	.25	.015	.38	.184	4.67
 Rip Cord														
Jacket sequentially marked at 2 ft. intervals.														
300V 75°C	**5202UE**	NEC: CMR CEC: CMG FT4	4	Black, Red, White, Green	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	23.5 23.0 45.0 47.0	10.7 10.4 20.4 21.3	.010	.25	.015	.38	.216	5.49
 Rip Cord														
Jacket sequentially marked at 2 ft. intervals.														
Plenum • Flamarrest® Insulation • Natural Flamarrest Jacket														
300V 75°C	**6200UE**	NEC: CMP CEC: CMP FT6	2	Black, Red	500 U-1000 1000	152.4 U-304.8 304.8	13.0 25.0 26.0	5.9 11.4 11.8	.009	.23	.015	.38	.180	4.57
 Rip Cord														
Jacket sequentially marked at 2 ft. intervals.														
Multi-conductor • 14 AWG Stranded (19x27) Bare Copper Conductors • Rip Cord														
Non-Plenum • PVC Insulation • PVC Jacket (Available in Red* or Gray)														
300V 75°C	**5100UE**	NEC: CL3R FPLR*	2	Black, White	500 † U-1000 † 1000	152.4 U-304.8 304.8	20.0 38.0 40.0	9.1 17.2 18.2	.014	.36	.015	.38	.234	5.94
 Rip Cord														
†500 ft. and U-1000 ft. put-ups available in Gray only. *Red jacket only suitable for Fire Alarm applications. Jacket sequentially marked at 2 ft. intervals.														
Plenum • Flamarrest Insulation • Natural Flamarrest Jacket														
150V 75°C	**6100UE**	NEC: CL2P	2	Black, White	500 U-1000 1000 5000	152.4 U-304.8 304.8 1524.0	19.5 38.0 38.0 195.0	8.9 17.2 17.2 88.5	.011	.28	.015	.38	.222	5.64
 Rip Cord														
Jacket sequentially marked at 2 ft. intervals.														
Multi-conductor • 12 AWG Stranded (19x25) Bare Copper Conductors • Rip Cord														
Non-Plenum • PVC Insulation • PVC Jacket (Available in Red* or Gray)														
300V 75°C	**5000UE**	NEC: CL3R FPLR*	2	Black, White	500 † 1000	152.4 304.8	29.0 57.0	13.2 25.9	.014	.36	.015	.38	.268	6.81
 Rip Cord														
†500 ft. put-up available in Gray only. *Red jacket only suitable for Fire Alarm applications. Jacket sequentially marked at 2 ft. intervals.														

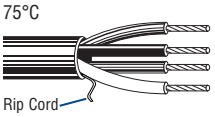
For additional selection of Belden® Security, Alarm and Communications Cables, refer to the New Generation® Cables section of this catalog.

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Speaker Cable

High-Strand Multi-conductor Audio Cables

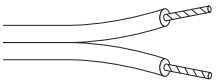
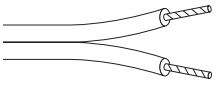
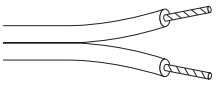
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Outer Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
High-Strand • 16 AWG Stranded (65x34) Bare High-conductivity ETP Copper Conductors • Highly Stranded for Ultra Flexibility • Rip Cord														
High-Grade PVC Insulation • PVC Jacket (Available in Blue, Green, White, Black or Gray)														
75°C  Rip Cord	**5200UP**	NEC: CM	2	Black, White	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	14.5 14.5 28.0 28.0	6.6 6.6 12.7 12.7	.015	.38	.015	.38	.208	5.28
Jacket sequentially marked at 2 ft. intervals.														
75°C  Rip Cord	**5202UP**	NEC: CM	4	Black, White, Red, Green	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	25.5 26.0 49.0 51.0	11.6 11.8 22.2 23.2	.015	.38	.015	.38	.244	6.20
Jacket sequentially marked at 2 ft. intervals.														
High-Strand • 14 AWG Stranded (42x30) Bare High-conductivity ETP Copper Conductors • Highly Stranded for Ultra Flexibility • Rip Cord														
High-Grade PVC Insulation • PVC Jacket (Available in Blue, Green, White, Black or Gray)														
75°C  Rip Cord	**5100UP**	NEC: CL3	2	Black, White	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	21.0 22.5 41.0 43.0	9.5 10.2 18.6 19.5	.020	.51	.015	.38	.260	6.60
Jacket sequentially marked at 2 ft. intervals.														
High-Strand • 12 AWG Stranded (65x30) Bare High-conductivity ETP Copper Conductors • Highly Stranded for Ultra Flexibility • Rip Cord														
High-Grade PVC Insulation • PVC Jacket (Available in Blue, Green, White, Black or Gray)														
75°C  Rip Cord	**5000UP**	NEC: CL3	2	Black, White	U-500 500 1000	U-152.4 152.4 304.8	31.0 32.5 64.0	14.1 14.7 29.1	.020	.51	.018	.46	.302	7.67
Jacket sequentially marked at 2 ft. intervals.														
High-Strand • 10 AWG Stranded (65x28) Bare High-conductivity ETP Copper Conductors • Highly Stranded for Ultra Flexibility														
High-Grade PVC Insulation • Gray PVC Jacket														
75°C  Rip Cord	**5T00UP**	NEC: CL2 Audio Use Only	2	Black, White	500 1000	152.4 304.8	49.5 96.0	22.5 43.6	.020	.51	.026	.66	.356	9.04
Jacket sequentially marked at 2 ft. intervals.														

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Speaker Cable

High-Conductivity Electrolytic Tough Pitch (ETP) Copper Speaker Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm
16 AWG Stranded (26x30) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
PVC Insulation • Clear PVC Jacket											
Parallel Zip Construction 300V 60°C	**9716**		2	U-1000 1000	U-304.8 304.8	27.0 26.0	12.3 11.8	.027	.69	.115 x .230	2.92 x 5.84
											
14 AWG Stranded (19x27) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
PVC Insulation • Clear PVC Jacket											
Parallel Zip Construction 60°C	**9717**		2	U-1000 1000	U-304.8 304.8	42.0 42.0	19.1 19.1	.035	.89	.146 x .292	3.71 x 7.42
											
12 AWG Stranded (65x30) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare											
PVC Insulation • Clear PVC Jacket											
Parallel Zip Construction 60°C	**9718**		2	500 1000	152.4 304.8	33.0 66.0	15.0 30.0	.045	1.14	.185 x .370	4.70 x 9.40
											

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Alarm, Security and Speaker Cable / Shielded Audio Cable

Multi-conductor Cables for Residential, Light Commercial and Institutional Applications, AES/EBU Digital Audio Cables, and Audio and Control Interconnect Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Outer Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
Multi-conductor • 22 AWG Stranded (7x30) Bare Copper Conductors														
Non-Plenum • Polypropylene Insulation • PVC Jacket (Beige, Brown, Orange, Yellow, Green, Blue, Purple, Gray or Natural)														
300V 75°C	**5500UG**	NEC: CM CEC: CM FT1	2	Black, Red	C-500 U-500 C-1000 U-1000	C-152.4 U-152.4 C-304.8 U-304.8	3.5 5.0 7.0 9.0	1.6 2.3 3.2 4.1	.006	.15	.015	.38	.114	2.90
Jacket sequentially marked at 2 ft. intervals.														
300V 75°C	**5502UG**	NEC: CM CEC: CM FT1	4	Black, Red, White, Green	C-500 U-500 * C-1000 U-1000	C-152.4 U-152.4 C-304.8 U-304.8	6.5 7.5 13.0 14.0	3.0 3.4 5.9 6.4	.006	.15	.015	.38	.131	3.33
*U-500 ft. put-up available in Gray or White only. Jacket sequentially marked at 2 ft. intervals.														
Multi-conductor • 18 AWG Stranded (7x26) Bare Copper Conductors														
Non-Plenum • Polypropylene Insulation • PVC Jacket (Available in Black, Gray or Natural)														
300V 75°C	**5300UG**	NEC: CM CEC: CM FT1	2	Black, Red	C-500 U-500 U-1000	C-152.4 U-152.4 U-304.8	7.5 8.5 16.0	3.4 3.9 7.3	.006	.15	.015	.38	.148	3.76
Jacket sequentially marked at 2 ft. intervals.														

Shielded Audio Cable

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
AES/EBU Digital Audio • 24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil® Shield (100% Coverage) • 24 AWG Drain Wire																		
Datalene® Insulation • Gray or Purple PVC Jacket																		
60°C	**1800B**	NEC: CMG CEC: CMG FT4	1	Black, Red	500• U-1000 1000 5000•	152.4 U-304.8 304.8 1524.0	8.0 17.0 16.0 90.0	3.6 7.7 7.3 40.9	23.7Ω/M′ 77.7Ω/km	18.9Ω/M′ 62.0Ω/km	.177	4.50	110	76%	12	39	26	85
For cross-connect use with 1803F (et al.) Digital Audio Snake Cables, see page 19.28 For Plenum version of 1800B, see 1801B.																		
•500 ft. put-up available in Gray only. 5000 ft. put-up available in Purple only. The jacket and shield are bonded so both can be removed with automatic stripping equipment.																		
Audio and Control Interconnect • 22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • 24 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)																		
60°C	**8723**	NEC: CM CEC: CM	2	Red/Black, Green/White	100 U-500 500 U-1000 1000 1640 U-2000 2000 3280 5000 10000	30.5 U-152.4 152.4 U-304.8 304.8 499.9 U-609.6 609.6 999.7 1524.0 3048.0	2.3 10.5 10.0 20.0 20.0 32.8 38.0 40.0 65.6 95.0 200.0	1.0 4.8 4.5 9.1 9.1 14.9 17.2 18.2 29.8 43.2 90.9	14.7Ω/M′ 48.5Ω/km	15.0Ω/M′ 49.2Ω/km	.160	4.06	45	66%	35	115	62	203
Z-Fold®																		
Pairs Individually Shielded with Beldfoil® (100% Coverage) For Plenum versions of 8723, see 88723, 87723 or 82723.																		

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

For additional selection of Belden® Audio Cables, refer to the Broadcast Cables section of this catalog.

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.

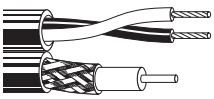
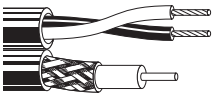
Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Surveillance Coax

Coaxial and Composite Cables for Surveillance and CCTV Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Nominal DCR		Nominal Core OD		Nominal OD		Nom. Imp. (Ω)
			Ft.	m	Lbs.	kg	Conductor	Shielding	Inch	mm	Inch	mm	
Coaxial • RG-59/U Type • 20 AWG Solid Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)													
Foam Polyolefin Insulation • PVC Jacket (Available in Black or White)													
75°C 	**543945**	NEC:	U-500	U-152.4	13.0	6.0	10.0Ω/M′	3.5Ω/M′	.145	3.68	.232	5.89	75
		CM	500	152.4	16.0	7.3	32.8Ω/km	11.5Ω/km					
		CEC:	U-1000	U-304.8	32.0	14.5							
		CM FT1	1000	304.8	34.0	15.4							
Jacket sequentially marked at 2 ft. intervals.													
Composite • RG-59/U Type, 20 AWG Coax Solid BC Conductor • BC Braid Shield (95% Coverage) **• 18 AWG** UTP Stranded (7x26) BC Conductor													
Foam Polyolefin Insulation (Coax) **• PVC Insulation** (Pair, Color Code: Red, Black) **• PVC Jacket** (Available in Black or White)													
Siamese Configuration 75°C 	**549945**	NEC:	500	152.4	30.0	13.6	Coax: 10.0Ω/M′ 32.8Ω/km	3.5Ω/M′ 11.5Ω/km	Coax OD: .145	3.68	.232 x .460	5.89 x 11.68	75
		CM	1000	304.8	60.0	27.3			Pair OD: .046	1.17			
		CEC: CM FT1					Each Pair: 6.5Ω/M′ 21.3Ω/km						
Jacket sequentially marked at 2 ft. intervals.													
Composite • RG-6/U Type, 18 AWG Coax Solid BC Conductor • BC Braid Shield (95% Coverage) **• 18 AWG** UTP Stranded (7x26) BC Conductor													
Foam Polyolefin Insulation (Coax) **• PVC Insulation** (Pair, Color Code: Red, Black) **• Black PVC Jacket**													
Siamese Configuration 75°C 	**539945**	NEC:	500	152.4	34.0	15.5	Coax: 10.0Ω/M′ 32.8Ω/km	3.5Ω/M′ 11.5Ω/km	Coax OD: .180	4.57	.266 x .500	6.76 x 12.70	75
		CM	1000	304.8	69.0	31.3			Pair OD: .066	1.68			
		CEC: CM FT1					Each Pair: 6.5Ω/M′ 21.3Ω/km						
Jacket sequentially marked at 2 ft. intervals.													

BC = Bare Copper • DCR = DC Resistance • UTP = Unshielded Twisted Pair

For additional selection of Belden® Security and CCTV Cables, refer to the New Generation® and Coaxial Cables sections of this catalog.

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Tools and Accessories

Compression and Cable Prep Tools

One-piece, Male Connectors for Mini Hi-Res Coaxial Cable

HCST Cable Prep Tool

Product Description

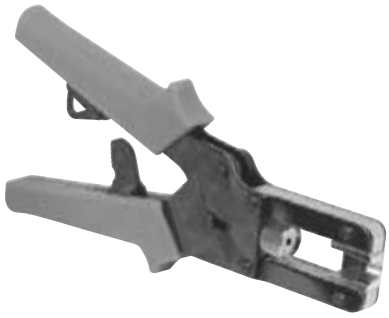
Cable stripping tool for use with RG-6, RG-59, Mini RG-59 and RGB Coaxial cable.
Belden Part No. HCST 000001



HCCT Compression Tool

Product Description

Suitable for use with BNC, RCA and F Connectors including Belden 1B25A, 1R25A, HC2920A and HC22910A connectors.
Belden Part No. HCCT 000020



Compatible Cables

25 AWG Solid Center Conductor Miniature Hi-Res RGB Coax Cables

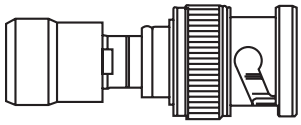
	CMR	CMP
1 Coax	1281R	1282P
Banana Peel® Spline Constructions		
3 Coax RGB	1281S3	1282S3
4 Coax RGBS	1281S4	1282S4
5 Coax RGBHV	1281S5	1282S5
6 Mini Coaxes	1281S6	1282S6
Jacketed Constructions		
3 Coax RGB	1277R	1277P
4 Coax RGBS	1278R	1278P
5 Coax RGBHV	1279R	1279P
6 Mini Coaxes	1280R	1280P

75-Ohm BNC Connectors

Product Description

One-piece male connector for 25 AWG Mini Hi-Res Coaxial cable. Compression attachment method for contact and body. Use Belden HCCT Compression Tool.

Belden Part No. 1B25A (Nickel-plated Body)
HC2920A (Gold-plated Body)



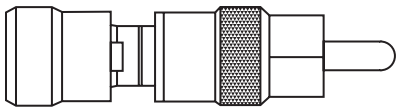
Specifications	
Impedance	75Ω
Frequency Range	DC–3.0 GHz (dependent upon Cable limitations)
Insertion Loss	<.1 dB @ 1 GHz
Return Loss	>20 dB; 5–1000 MHz
Cable Retention Force	>40 lbs.
Center Conductor Contact Plating	>.0003″ Gold on Beryllium Copper
Center Pin Retention	>150 grams
Mating Style	2-stud Bayonet Lock
Current Rating	5 amp
Max. Working Voltage	300 Vrms
Body Material	Brass
Body Plating	Nickel or Gold
RFI	>100 dB
Cable Attachment Method	Compression Style; 1-piece

RCA Connectors

Product Description

One-piece male connector for 25 AWG Mini Hi-Res Coaxial cable. Compression attachment method for contact and body. Use Belden HCCT Compression Tool.

Belden Part No. 1R25A (Nickel-plated Body)
HC2910A (Gold-plated Body)



Specifications	
Impedance	For 75Ω cables (75Ω style)
Cable Retention Force	>40 lbs.
Center Pin Plating	Gold on Beryllium Copper
Center Pin Retention	>150 grams
Mating Style	RCA Standard Interface
Current Rating	2 amps
Max. Working Voltage	300 Vrms
Body Material	Brass
Body Plating	Nickel or Gold
Cable Attachment Method	Compression Style; 1-piece

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22 Technical Information



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The information, graphs, tables and illustrations presented in this section are provided to assist Belden customers with the selection of the most appropriate cable for their application. For further assistance, contact Belden Technical Support at: **1-800-BELDEN-1**.

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Conductors

Table 1: Solid Copper Wire, American Wire Gage

Gage (AWG)	Nominal OD		Nominal Circular MIL Area	Nominal Weight (Lbs. per 1000 Ft.)	Nominal Resistance @ 68°F (Ω/1000 Ft.)
	Inches	mm			
10	.1019	2.60	10380.0	31.43	.9989
11	.0907	2.30	8234.0	24.92	1.260
12	.0808	2.05	6530.0	19.77	1.588
13	.0720	1.83	5178.0	15.68	2.003
14	.0641	1.63	4107.0	12.43	2.525
15	.0571	1.45	3260.0	9.858	3.184
16	.0508	1.29	2583.0	7.818	4.016
17	.0453	1.15	2050.0	6.200	5.064
18	.0403	1.02	1620.0	4.917	6.385
19	.0359	.912	1200.0	3.899	8.051
20	.0320	.813	1020.0	3.092	10.15
21	.0285	.724	812.1	2.452	12.80
22	.0253	.643	640.4	1.945	16.14
23	.0226	.574	511.5	1.542	20.36
24	.0201	.511	404.0	1.223	25.67
25	.0179	.455	320.4	.9699	32.37
26	.0159	.404	253.0	.7692	40.81
27	.0142	.361	201.5	.6100	51.47
28	.0126	.320	159.8	.4837	64.90
29	.0113	.287	126.7	.3836	81.83
30	.0100	.254	100.5	.3042	103.2
31	.0089	.226	79.7	.2413	130.1
32	.0080	.203	63.21	.1913	164.1
33	.0071	.180	50.13	.1517	206.9
34	.0063	.160	39.75	.1203	260.9
35	.0056	.142	31.52	.09542	331.0
36	.0050	.127	25.00	.07568	414.8
37	.0045	.114	19.83	.0613	512.1
38	.0040	.102	15.72	.04759	648.6
39	.0035	.089	12.20	.03774	847.8
40	.0031	.079	9.61	.02993	1080.0

Information from National Bureau of Standards Copper Wire Tables — Handbook 100.

Unparalleled Performance

Belden is one of only a very few cable manufacturers to draw and anneal its own conductors. This is a time-consuming process, but it allows us to ensure signal integrity, as well as proper physical characteristics.

In addition, the standards under which we design and manufacture our fiber optic cabling are among the strictest in the industry. The result is a comprehensive offering of products which give unparalleled performance and can satisfy your most demanding operating and environmental challenges.

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Conductors

Table 2: Stranded Copper Wire, American Wire Gage

Gage (AWG)	Stranding (Nom. AWG)	Min. Average OD of Strand	Approximate OD		ASTM Min. Circular MIL Area	Min. Weight (Lbs./1000 Ft.)	Max. Resistance* @ 68°F (Ω/1000 Ft.)
			Inches	mm			
36	7x44	.0019	.006	.152	25	.076	414.8
34	7x42	.0024	.0075	.191	39.7	.121	260.9
32	7x40	.0030	.0093	.236	64	.195	164.1
32	19x44	.0018	.010	.254	64	.195	164.1
30 ◆	7x38	.0038	.012	.305	100	.304	112.0
30	19x42	.0023	.012	.305	100	.304	112.0
28 ◆	7x36	.0048	.015	.381	159	.484	70.7
28 ◆	19x40	.0029	.016	.406	159	.484	70.7
27	7x35	.0054	.017	.432	202	.614	55.6
26 ◆	7x34	.0060	.019	.483	253	.770	44.4
26	10x36	.0050	.021	.533	253	.770	44.4
26 ◆	19x38	.0036	.020	.508	253	.770	44.4
24 ◆	7x32	.0076	.024	.610	404	1.229	27.7
24	10x34	.0064	.024	.610	404	1.229	27.7
24 ◆	19x36	.0046	.024	.610	404	1.229	27.7
24 ◆	42x40	.0031	.023	.584	404	1.229	27.7
22 ◆	7x30	.0096	.030	.762	640	1.947	17.5
22 ◆	19x34	.0058	.031	.787	640	1.947	17.5
22	26x36	.0050	.030	.762	640	1.947	17.5
20 ◆	7x28	.0126	.038	.965	1020	3.103	10.9
20	10x30	.0101	.037	.940	1020	3.103	10.9
20 ◆	19x32	.0073	.037	.940	1020	3.103	10.9
20	26x34	.0063	.036	.914	1020	3.103	10.9
20 ◆	42x36	.0049	.038	.965	1020	3.103	10.9
18 ◆	7x26	.0152	.048	1.22	1620	4.93	6.92
18	16x30	.0101	.047	1.19	1620	4.93	6.92
18 ◆	19x30	.0092	.049	1.24	1620	4.93	6.92
18 ◆	42x34	.0062	.047	1.19	1620	4.93	6.92
18 ◆	65x36	.0050	.047	1.19	1620	4.93	6.92
16 ◆	7x24	.0192	.060	1.52	2580	7.85	4.35
16 ◆	19x29	.0117	.058	1.47	2580	7.85	4.35
16	26x30	.0100	.059	1.50	2580	7.85	4.35
16 ◆	65x34	.0063	.059	1.50	2580	7.85	4.35
16	105x36	.0050	.059	1.50	2580	7.85	4.35
14 ◆	7x22	.0242	.076	1.93	4110	12.50	2.73
14 ◆	19x26	.0147	.071	1.80	4110	12.50	2.73
14 ◆	42x30	.0099	.075	1.91	4110	12.50	2.73
14	105x34	.0063	.075	1.91	4110	12.50	2.73
12 ◆	7x20	.0305	.096	2.44	6530	19.86	1.71
12 ◆	19x25	.0185	.093	2.36	6530	19.86	1.71
12 ◆	65x30	.0100	.095	2.41	6530	19.86	1.71
12	165x34	.0063	.095	2.41	6530	19.86	1.71
10	37x26	.0167	.115	2.92	10380	31.58	1.08
10	65x28	.0126	.120	3.05	10380	31.58	1.08
10	105x30	.0099	.118	3.00	10380	31.58	1.08

*AWG 10 through 30 per UL Subject 13.

Belden has standardized on the stranded conductors used in the design of all Belden® products.
These preferred constructions, based on standard industry practices, are marked with a ◆ symbol.

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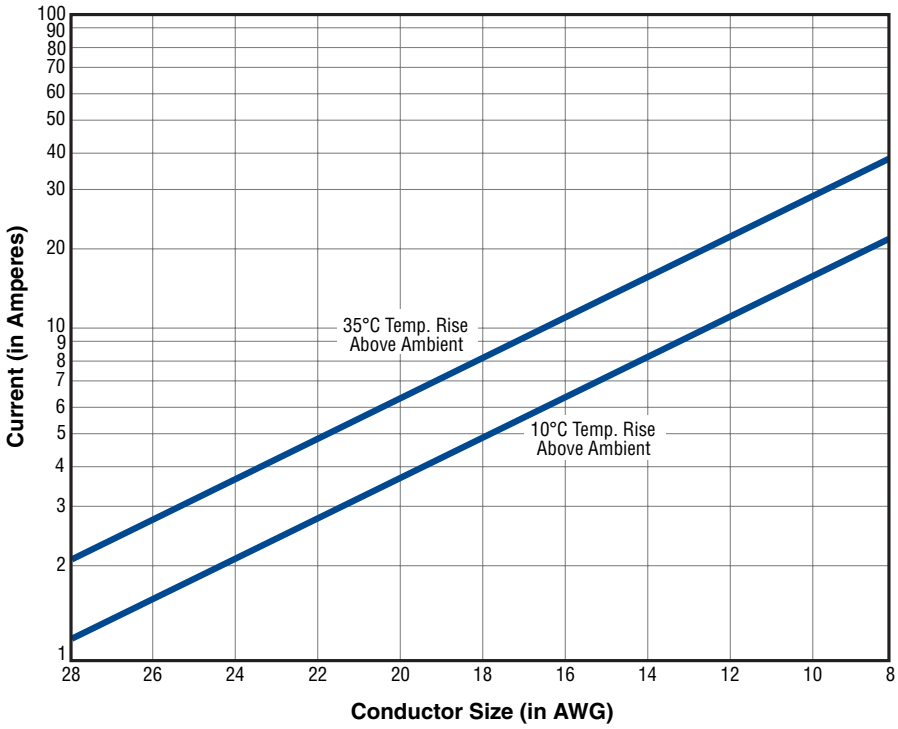
Conductors

Table 3: Current Ratings for Belden® Electronic Cables

The maximum continuous current rating for an electronic cable is limited by conductor size, number of conductors contained within the cable, maximum temperature rating of the cable, and environmental conditions such as ambient temperature and air flow. To use the current capacity chart, first determine conductor size, temperature rating, and number of conductors from the applicable product description for the cable of interest.

Next, find the current value on the chart for the proper temperature rating and conductor size. To calculate the maximum current rating/conductor, multiply the chart value by the appropriate conductor factor. The chart assumes cable is surrounded by still air at an ambient temperature of 25°C. Current values are in RMS Amperes and are valid for copper conductors only. For conditions other than specified, contact Belden Technical Support at: **1-800-BELDEN-1**.

Note: Current ratings are intended as general guidelines for low power electronic communications and control applications. Current ratings for power applications generally are set by regulatory agencies such as UL, CSA, NEC, and others.



Current Ratings

No. of Conductors*	Factor
1	1.6
2 to 3	1.0
4 to 5	.8
6 to 15	.7
16 to 30	.5

*Do not count shields unless used as conductor.

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Conductors

Table 4: Metric / Imperial / AWG Equivalents

(Square Millimeters / Square Inches / Circular Mils / AWG)

Sq. mm	Sq. in.	Cir. mils	AWG
1000	1.550	1974000	
975	1.511	1924700	
950	1.472	1875300	
925	1.434	1826000	
900	1.395	1776600	
875	1.356	1727300	
850	1.317	1677900	
825	1.279	1628600	
800	1.240	1579200	
775	1.201	1529900	
750	1.163	1480500	
725	1.124	1431200	
700	1.085	1381800	
675	1.046	1332500	
650	1.008	1283100	
625	.969	1233800	
600	.930	1184400	
575	.891	1135100	
550	.853	1085700	
525	.814	1036400	
500	.775	987000	
475	.736	937700	
450	.698	888300	
425	.659	839000	
400	.620	789600	
375	.581	740300	
350	.542	690900	
325	.504	641600	
300	.465	592200	
275	.426	542900	
250	.388	493500	
225	.349	444200	
200	.310	394800	
175	.271	345500	
150	.233	296100	
125	.1938	246800	
—	—	211600	4/0
100	.1550	197400	
95	.1472	187530	
90	.1395	177660	
—	—	167800	3/0
85	.1317	167790	
80	.1240	157920	
75	.1163	148050	
70	.1085	138180	
—	—	133100	2/0
65	.1008	128310	
60	.0930	118440	
55	.0853	108570	
—	—	105600	1/0
50	.0775	98700	
45	.0698	88830	
—	—	83690	1
40	.0620	78960	
35	.0542	69090	
—	—	66360	2
30	.0465	59220	
—	—	52620	3
25	.0388	49350	
—	—	41740	4
20.0	.0310	39480	
19.5	.0302	38490	
19.0	.0294	37510	
18.5	.0287	36520	
18.0	.0279	35530	
17.5	.0271	34550	
17.0	.0264	33560	
—	—	33090	5
16.5	.0256	32560	
16.0	.0248	31580	
15.5	.0240	30600	
15.0	.0233	29610	
14.5	.0225	28620	
14.0	.0217	27640	
13.5	.0209	26650	
—	—	26420	6
13.0	.0201	25660	
12.5	.0194	24680	
12.0	.0186	23690	
11.5	.0178	22700	
11.0	.0171	21710	
—	—	20820	7
10.5	.0163	20730	
10.0	.0155	19740	
9.5	.01472	18753	
9.0	.01395	17766	
8.5	.01317	16779	
—	—	16510	8
8.0	.01240	15792	
7.5	.01163	14805	
7.0	.01085	13818	
—	—	13090	9
6.5	.01008	12831	
6.0	.00930	11844	
5.5	.00853	10857	
—	—	10380	10
5.00	.00775	9870	
4.75	.00736	9377	
4.50	.00698	8883	
4.25	.00659	8390	
—	—	8230	11
4.00	.00620	7896	
3.75	.00581	7403	
3.50	.00542	6909	
—	—	6530	12
3.25	.00504	6416	
3.00	.00465	5922	
2.75	.00426	5429	
—	—	5180	13
2.50	.00388	4935	
2.25	.00349	4422	
—	—	4110	14
2.00	.00310	3948	
1.75	.00271	3455	
—	—	3260	15
1.50	.00233	2961	
—	—	2580	16
1.25	.00194	2468	
—	—	2050	17
1.00	.00155	1974	
.90	.00140	1777	
—	—	1620	18
.80	.00124	1579	
.75	.00116	1481	
.70	.00109	1382	
—	—	1290	19
.60	.00093	1184	
—	—	1029	20
.50	.000775	987	

To Convert:	Multiply by:
Inches to millimeters	25.4
Millimeters to inches	.03937

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Insulations and Jackets

Overview

Insulations

Belden expends a great amount of time and effort to formulate its own insulations. As a result, Belden® insulations provide superior performance under a variety of hostile environmental conditions. Belden cables are available in UL Listed and CSA Approved insulation compounds.

Among the insulations we utilize are:

- **Polyethylene**
- **Polyvinyl-chloride (PVC)**
- **Polypropylene**

Also available are:

- **Datalene® —** For computer and data transmission. Datalene is crush resistant, lightweight, and offers good performance characteristics over a wide range of temperatures.
- **Teflon® Insulated Plenum & High-Temperature Cables —** For data communications, instrumentation/control, and other commercial and industrial applications. Plenum cables eliminate the need for conduit and reduce installation time.

Jackets

Belden electronic cables are manufactured in a wide selection of jacketing materials.

- **Flamarrest® —** A Belden jacketing innovation, Flamarrest is a low-smoke, flame retardant compound that is five times more flexible than fluorocopolymer. Cables jacketed with Flamarrest are cost efficient and easy to install.

Also included in our wide selection of jacketing compounds are:

- **Polyvinyl-chloride**
- **Polyethylene**
- **Polyurethane**
- **Teflon**
- **Tefzel®**
- **Halar®**
- **Neoprene**
- **EPDM**
- **Hypalon®**
- **Silicone rubber**
- **Natural rubber**

Special compounds and variations of standard compounds are used as well.

Teflon, Tefzel and Hypalon are DuPont trademarks.
Halar is an Ausimont Corporation trademark.

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Insulations and Jackets

Typical Characteristics of Popular Insulation and Jacketing Compounds

EPDM

EPDM (ethylene-propylene-diene elastomer) is a chemically cross-linked elastomer with excellent flexibility at high and low temperatures (150° to -55°C). It has good insulation resistance and dielectric strength, as well as excellent abrasion resistance and mechanical properties. EPDM also has better cut-through resistance than Silicone rubber, which it replaces in some applications.

EPDM is compatible with most varnishes, but after the dip and bake cycle varnish tends to adhere to the insulation (because EPDM, unlike some rubber insulations, does not exude oils or waxes). As lead wires are pulled apart for termination, the varnish cracks, sometimes breaking the insulation.

To resolve this problem, a stearic solution is applied to the lead wire during the put-up process. This ensures that rigid varnish does not cause EPDM insulation to rupture when the wire is terminated.

Field evaluations by numerous users reveal that the coated EPDM has excellent varnish resistance at least equal to synthetic elastomers, cross-link polyethylene, or Silicone glass braid in dip and bake systems.

Flamarrest®

Flamarrest is a plenum grade chloride-based jacketing material with low smoke and low flame spread properties. Cables jacketed with Flamarrest meet the ANSI/NFPA Standard 262-1985 (UL910), Plenum Cable Flame Test.

Halar®

Thermoplastic fluoropolymer material with excellent chemical resistance, electrical properties, thermal characteristics, and impact resistance. The temperature rating is -70°C to 150°C.

Neoprene

The temperature range of this material can vary from -55°C to 90°C. The actual range would depend on the formulation used. Neoprene is both oil-resistant and sunlight-resistant, making it ideal for many outdoor applications. The most stable colors are Black, Dark Brown, and Gray. The electrical properties are not as good as other insulation materials. Because of this, thicker insulation should be used. Typical designs where this material is used are lead wire insulation and cable jackets.

Polyethylene (Solid and Foamed)

A very good insulation in terms of electrical properties. Low dielectric constant, a stable dielectric constant over all frequencies, very high insulation resistance. In terms of flexibility, polyethylene can be rated stiff to very hard, depending on molecular weight and density—low density being the most flexible, with high-density, high-molecular weight formulation being very hard. Moisture resistance is rated excellent. Black and specially formulated colored versions have excellent weather resistance. The dielectric constant is 2.3 for solid insulation and typically 1.64 for foam designs. Flame retardant formulations are available with dielectric constants ranging from about 1.7 for foam flame retardant to 2.58 for solid flame retardant polyethylene.

Polypropylene (Solid and Foam)

Similar in electrical properties to polyethylene. This material is primarily used as an insulation material. Typically, it is harder than polyethylene. This makes it suitable for thin wall insulations. UL maximum temperature rating may be 60°C, 80°C or 105°C. The dielectric constant is 2.25 for solid and typically 1.55 for foam designs.

Polyurethane

This material is used primarily as a cable jacket material. It has excellent oxidation, oil, and ozone resistance. Some formations also have good flame resistance. It is a hard material with excellent abrasion resistance. It has outstanding “memory” properties, making it an ideal jacket material for retractile cords.

PVC

Sometimes referred to as vinyl or polyvinyl-chloride. Extremely high or low temperature properties cannot be found in one formulation. Certain formulations may have -55°C to 105°C rating. Other common vinyls may have -20°C to 60°C. There are many formulations for the variety of different applications. The many varieties of PVC also differ in pliability and electrical properties. The price range can vary accordingly. Typical dielectric constant values can vary from 3.5 to 6.5.

Rubber

The description of rubber normally includes natural rubber and SBR compounds. Both of these materials can be used for insulations and jackets. There are many formulations of these basic materials. Each formulation is for a specific application. Some formulations are suitable for -55°C minimum, while others are suitable for 75°C maximum.

Silicone

This is a very soft insulation which has a temperature range from -80°C to 200°C. It has excellent electrical properties plus ozone resistance, low moisture absorption, weather resistance, and radiation resistance. It typically has low mechanical strength and poor scuff resistance.

Teflon®

This material has excellent electrical properties, temperature range and chemical resistance. It is not suitable where subjected to nuclear radiation and does not have good high voltage characteristics. FEP Teflon is extrudable in a manner similar to PVC and polyethylene. This means that long wire and cable lengths are available. TFE Teflon is extrudable in a hydraulic ram type process. Lengths are limited due to amount of material in the ram, thickness of the insulation, and preform size. TFE must be extruded over a silver- or nickel-coated wire. The nickel- and silver-coated designs are rated 260°C and 200°C maximum, respectively. The cost of Teflon is approximately 8 to 10 times more per pound than PVC compounds.

Tefzel®

Fluorocopolymer thermoplastic material having excellent electrical properties, heat resistance, chemical resistance, toughness, radiation resistance, and flame resistance. The temperature rating is -65°C to 150°C.

Teflon and Tefzel are DuPont trademarks.
Halar is a Solvay Solexis trademark.

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Insulations and Jackets

Table 4: Comparative Properties of Plastic Insulating and Jacketing Compounds

Properties	PVC	LDPE	Cellular Polyethylene	HDPE	Polypropylene	Cellular Polypropylene	PUR	Nylon	CPE	Flamarrest®
Oxidation Resistance	E	E	E	E	E	E	E	E	E	E
Heat Resistance	G–E	G	G	E	E	E	G	E	E	G–E
Oil Resistance	F	G–E	G	G–E	F	F	E	E	E	F
Low-Temperature Flexibility	P–G	E	E	E	P	P	G	G	E	P–G
Weather, Sun Resistance	G–E	E	E	E	E	E	G	E	E	G
Ozone Resistance	E	E	E	E	E	E	E	E	E	E
Abrasion Resistance	F–G	G	F	E	F–G	F–G	O	E	E–O	F–G
Electrical Properties	F–G	E	E	E	E	E	P	P	E	G
Flame Resistance	E	P	P	P	P	P	P	P	E	E
Nuclear Radiation Resistance	F	G–E	G	G–E	F	F	G	F–G	O	F
Water Resistance	F–G	E	E	E	E	E	P–G	P–F	O	F
Acid Resistance	G–E	G–E	G–E	E	E	E	F	P–F	E	G
Alkali Resistance	G–E	G–E	G–E	E	E	E	F	E	E	G
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, etc.)	P	G–E	G	G–E	P–F	P	P–G	G	E	P
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	P–F	P	P	P	P–F	P	P–G	G	G–E	P–F
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	P–F	G	G	G	P	P	P–G	G	E	P–F
Alcohol Resistance	P–F	E	E	E	E	E	P–G	P	E	G
Underground Burial	P–G	G	N/A	E	N/A	N/A	G	P	E–O	P

CPE = Chlorinated Polyethylene • HDPE = High-density Polyethylene • LDPE = Low-density Polyethylene • PUR = Polyurethane

These ratings are based on average performance of general purpose compounds.
Any given property can usually be improved by the use of selective compounding.

Legend	
P	Poor
F	Fair
G	Good
E	Excellent
O	Outstanding

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Insulations and Jackets

Table 5: Comparative Properties of Fluoropolymer Insulating and Jacketing Compounds

Properties	FEP Teflon®	Tefzel® (ETFE)	PTFE Teflon	Solef® / Kynar® (PVDF) / PVF	Halar® (E-CTFE)
Oxidation Resistance	O	E	O	O	O
Heat Resistance	O	E	O	O	O
Oil Resistance	O	E	E–O	E	O
Low-Temperature Flexibility	O	E	O	F	O
Weather, Sun Resistance	O	E	O	E–O	O
Ozone Resistance	E	E	O	E	E
Abrasion Resistance	E	E	O	E	E
Electrical Properties	E	E	E	G–E	E
Flame Resistance	O	G	E	E	E–O
Nuclear Radiation Resistance	P–G	E	P	E	E
Water Resistance	E	E	E	E	E
Acid Resistance	E	E	E	G–E	E
Alkali Resistance	E	E	E	E	E
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, etc.)	E	E	E	E	E
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	E	E	E	G–E	E
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	E	E	E	G	E
Alcohol Resistance	E	E	E	E	E
Underground Burial	E	E	E	E	E

These ratings are based on average performance of general purpose compounds.
Any given property can usually be improved by the use of selective compounding.

Legend	
P	Poor
F	Fair
G	Good
E	Excellent
O	Outstanding

Teflon and Tefzel are DuPont trademarks.
Halar is a Solvay Solexis trademark.
Solef is a Solvay trademark.
Kynar is a Atofina Chemical Corporation trademark.

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Insulations and Jackets

Table 6: Comparative Properties of Rubber Insulations

Properties	Rubber	Neoprene	Hypalon® (Chlorosulfonated Polyethylene)	EPDM (Ethylene-Propylene-Diene Elastomer)	Silicone
Oxidation Resistance	F	G	E	E	E
Heat Resistance	F	G	E	E	O
Oil Resistance	P	G	G	P	F–G
Low-Temperature Flexibility	G	F–G	F	G-E	O
Weather, Sun Resistance	F	G	E	E	O
Ozone Resistance	P	G	E	E	O
Abrasion Resistance	E	G–E	G	G	P
Electrical Properties	G	P	G	E	G
Flame Resistance	P	G	G	P	F–G
Nuclear Radiation Resistance	F	F–G	E	G	E
Water Resistance	G	E	E	G–E	G-E
Acid Resistance	F–G	G	E	G–E	F–G
Alkali Resistance	F–G	G	E	G–E	F–G
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, etc.)	P	G	F	P	P–F
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	P	P-F	F	F	P
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	P	P	P–F	P	P–G
Alcohol Resistance	G	F	G	P	G

These ratings are based on average performance of general purpose compounds.
Any given property can usually be improved by the use of selective compounding.

Legend	
P	Poor
F	Fair
G	Good
E	Excellent
O	Outstanding

Hypalon is a DuPont trademark.

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Insulations and Jackets

Table 7: Nominal Temperature Range for Various Insulating and Jacketing Compounds

Compound	Normal Low	Normal High	Special Low	Special High
Chlorosulfonated Polyethylene (Hypalon®)	-20°C	90°C	-40°C	105°C
EPDM (Ethylene-Propylene-Diene Monomer)	-55°C	105°C	—	150°C
Neoprene	-20°C	60°C	-55°C	90°C
Polyethylene (Solid and Foamed)	-60°C	80°C	—	—
Polypropylene (Solid and Foamed)	-40°C	105°C	—	—
Rubber	-30°C	60°C	-55°C	75°C
FEP Teflon®	-70°C	200°C	—	—
PVC	-20°C	80°C	-55°C	105°C
Silicone	-80°C	150°C	—	200°C
Halar®	-70°C	150°C	—	—
Tefzel®	-65°C	150°C	—	—
PTFE Teflon	-70°C	260°C	—	—
CPE	-35°C	90°C	-45°C	105°C
Solef® / Kynar®	-20°C	150°/125°C	-40°C	150°/150°C
Flamarrest®	-20°C	75°C	—	—

Hypalon, Teflon and Tefzel are DuPont trademarks.
Halar is a Solvay Solexis trademark.
Solef is a Solvay trademark.
Kynar is a Atofina Chemical Corporation trademark.

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Shielding and Armoring
Overview

Innovative Leadership

The evolution of technology maintains steady demand for sophisticated cable shielding. Belden meets that demand with innovative shielding and shield effectiveness testing methods to supply you with high quality, dependable cable.

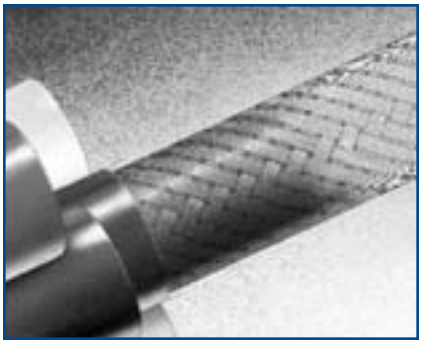
With the creation of trademarked shield designs and patented test methods, Belden has earned a reputation for innovation and leadership that is unequaled in the wire and cable industry. In addition, Belden offers the broadest line of shielded multi-conductor, coaxial and flat cable in the industry.

Several unique Belden innovations are utilized across a wide range of shielding applications:

- **Beldfoil® —** The first aluminum/polyester foil developed for use as a cable shield. Provides 100% shield coverage for optimum protection.
- **Duofoil® —** Consists of an aluminum-poly-aluminum laminate wrapped around the cable's dielectric core. Provides 100% physical coverage, and improves shield reliability and flex life.

Belden also utilizes a number of innovative techniques to apply shielding to multi-conductor and paired cables:

- **"French Braid" Shields —** Belden's patented "French Braid" shield is a double spiral (double serve shield) with the two spirals tied together by one weave.



Belden's patented "French Braid" shield.

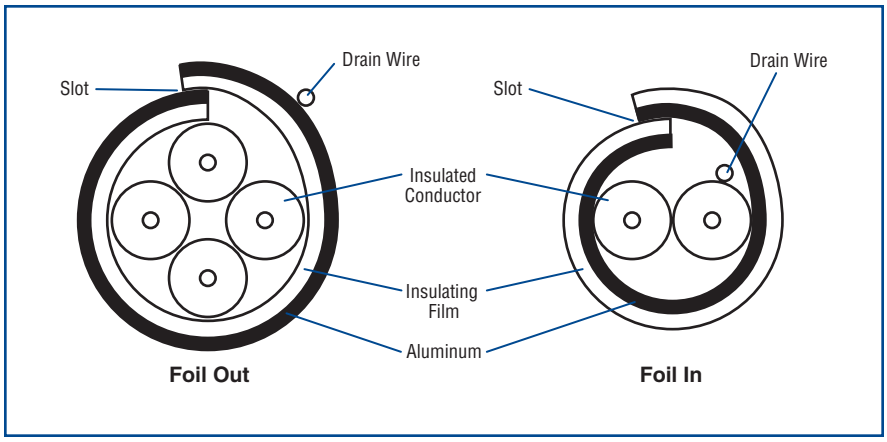


Figure 1: Foil shield configurations without shorting folds.

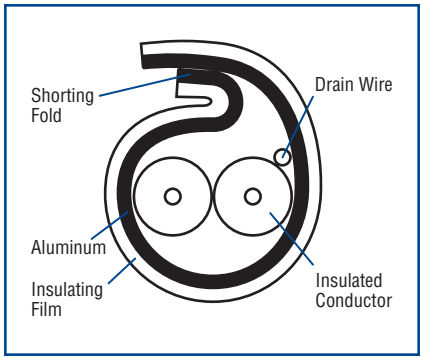


Figure 2: Foil shield configuration with shorting fold.

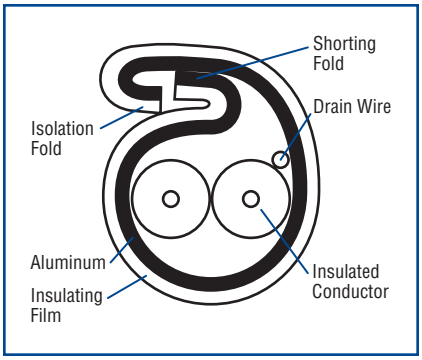


Figure 3: Foil shield with Z-Fold reduces crosstalk in multi-pair applications.

- **Shorting Fold —** Belden uses a shorting fold technique to maintain metal-to-metal contact for improved high frequency performance. Without the shorting fold, a slot is created through which signals can leak and cause interference. (See Figures 1 and 2 above.)

- **Z-Fold® —** Belden improves on the traditional shorting fold by employing a Z-Fold designed for use in multi-pair applications to reduce crosstalk. The Z-Fold (see Figure 3) combines an isolation and a shorting fold. The shorting fold provides metal-to-metal contact while the isolation fold keeps shields from shorting to one another in multi-pair, individually shielded cables.

The use of either a shorting fold or a Z-Fold increases the foil shield's range of effectiveness to higher frequencies.

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Shielding and Armoring

Characteristics of Belden® Shield Types and Armor Styles

Foil Shields

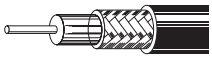
Foil shields consist of aluminum foil laminated to a polyester or polypropylene film. The film gives the shield mechanical strength and bonus insulation. Foil shields provide 100% cable coverage, necessary for electrostatic shield protection. Because of their small size, foil shields are commonly used to shield individual pairs of multi-pair data cables to reduce crosstalk. They have less weight, bulk and cost less than spiral or braid shields and are generally more effective than braid shields in RF ranges. Foil shields are more flexible than braid but have a shorter flex life than spiral or braid.



Drain wires are used with foil shields to make termination easier and to ground electrostatic discharges. The shortcomings in using the foil shield include higher DC resistance and lower mechanical strength than braid or spiral shields.

Braid Shields

A braid shield consists of groups of tinned or bare copper or aluminum strands, one set woven in a clockwise direction and interwoven with another set in a counter-clockwise direction.



Braid shields provide superior structural integrity, while maintaining good flexibility and flex life. These shields are ideal for minimizing low frequency interference and have lower DC resistance than foil. Braid shields are effective at audio, as well as RF ranges. Generally, the higher the braid coverage, the more effective the shield. However, the trade-off between cost and braid coverage must be considered. Typical braid coverages are between 80% and 95%. Coverage of 100% is unattainable with a braid shield. Other features to consider when choosing a braid shield are the weave angle, strand diameter, number of carriers (strand groups) and the number of ends (strands).

Braid shields are generally bulkier and heavier than other shields and, in some cases, harder to terminate because the braid may be combed out and pigtailed.

Spiral/Serve Shields

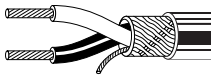
A spiral/serve shield consists of wire (usually copper) wrapped in a spiral around the inner cable core.



Superior flexibility and flex life, ease of termination and up to 97% coverage are the advantages of spiral shields. They are best suited for audio applications. As a rule, spiral shields are not effective above the audio frequency range due to the coil effect produced by the inductance of served wire strands.

"French Braid" Shields

Belden's patented "French Braid" shield is a double spiral (double serve shield) with the two spirals tied together by one weave. This construction provides improved flex life over standard spiral shields, improved flexibility over conventional braid shields, and lower levels of microphonic or triboelectric noise than either spiral or conventional braid shields.



Combination Shields

Combination shields consist of more than one layer of shielding. They provide maximum shield efficiency across the frequency spectrum. The combination foil/braid shield combines the advantages of 100% foil coverage, plus the strength and low DC resistance of the braid.

Belden has also developed a number of shielding configurations for use with broadband coaxial cables.

- **Duobond®**
  Duobond is essentially the same construction as Duofoil® (a laminated tape of foil/film/foil), but with an extra layer of adhesive bonding the foil shield to the dielectric core. This foil shield provides 100% coverage and insures maximum shield protection.

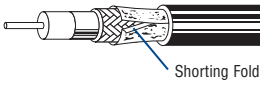
- **Duobond II (Foil/Braid)**
  Combines Duobond with an outer braid, applied for greater protection against interference and to increase the overall tensile strength.



- **Duobond III (Tri-Shield)**
  Utilizes the Duobond II design (foil/braid) plus a surrounding layer of Duofoil. The extra foil layer improves shield reliability and provides an additional interference barrier.



- **Duobond Plus® —** Features foil/braid/foil construction with a shorting fold in the outermost foil. This fold prevents a slot opening from being created in the shield, thereby preventing signal egress or ingress.



- **Duobond IV (Quad Shield)**
  Offers an extra layer of braid shield (foil/braid/foil/braid) for improved strength and durability.



Other combination shields are available such as the foil/braid/foil/braid used on the Ethernet cables, braid/braid or foil/spiral.

Armoring

Belden's innovative technology delivers maximum effectiveness to meet the performance requirements of a wide range of applications.

Belden also has the capability to protect electronic, instrumentation, and control cables with interlocking steel or aluminum armor.

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Shielding and Armoring

Shield Types Application Guide, Table 8: Relative Cost Comparison of Shield Types
Table 9: Shield Performance Ratings

Shield Types Application Guide

Choose a Foil Shield...

- For protection against capacitive (electric field) coupling where shield coverage is more important than low DC resistance.
- When possible sources of interference include TV signals, crosstalk from other circuits, radio transmitters, fluorescent lights or computing equipment.
- For MATV, CATV, video, networking, computer I/O cables in office, industrial or commercial environments where ambient EMI levels are low.

Choose a Braid Shield...

- For superior performance against diffusion coupling, where low DC resistance is important, and to a lesser extent, capacitive and inductive coupling.
- When possible sources of interference exhibit low impedance characteristics, such as motor control circuits and switches which operate inductive loads.
- For computer to terminal interconnect for process, instrumentation or control applications.

Choose a Spiral Shield...

- For functional shielding against diffusion and capacitive coupling at audio frequencies only.
- When possible sources of interference are power lines and fluorescent lights.
- For applications when flexibility and flex life are major concerns, such as microphone and audio cables and retractile cords.

Choose a Combination Shield...

- For shielding against high frequency radiated emissions coupling and ESD. Combines the low resistance of braid and 100% coverage of foil shields.
- When possible sources of interference include radio transmitters, TV stations, printed circuit boards, back planes, motor control circuits and computing equipment.
- For Video, CATV, MATV, networking, computer I/O cables and computer-aided manufacturing applications.

Table 8: Relative Cost Comparison

Relative cost comparisons are based on **coaxial** cable. Chart shows relative shield cost as one component of the total cost of the cable. *These cost ratings may change depending on the physical construction of the cable.*

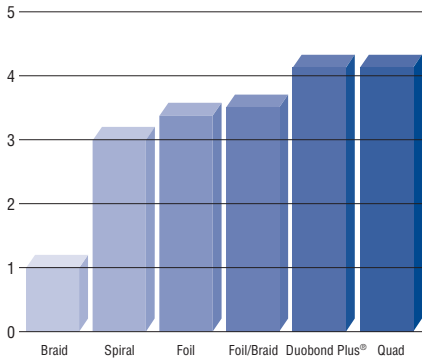


Table 9: Shield Performance Comparison Chart

Frequency Range and Types of Interference Anticipated	Cable Shield Ratings*				
	Braid (95% Coverage)	Spiral	Foil	Foil/Braid	Foil/Braid/Foil Duobond Plus®
Frequency: DC					
Capacitive	A	AA	AAA	AAA	AAA
Diffusion	AAA	A	C	AAA	AAA
Diffusion/Inductive	—	—	—	—	—
Diffusion/Inductive/Capacitive	—	—	—	—	—
Frequency: 15 kHz					
Capacitive	A	AA	AAA	AAA	AAA
Diffusion	AAA	B	C	AAA	AAA
Diffusion/Inductive	AA	C	A	AA	AAA
Diffusion/Inductive/Capacitive	—	—	—	—	—
Frequency: 10 MHz to 1000 MHz					
Capacitive	A	AA	AAA	AAA	AAA
Diffusion	—	—	—	—	—
Diffusion/Inductive	B	C	A	AA	AAA
Diffusion/Inductive/Capacitive	B	C	A	AA	AAA

*Although ratings shown in Table 9 are based on shielded coaxial cable test results, these ratings also pertain to shielded multi-conductor and flat cable where shield types are available.

Note: Shield effectiveness decreases as frequency increases. Therefore, ratings in one frequency category do not imply equal shield effectiveness in other frequency categories.

Shield Rating Key	
AAA	Best
AA	Better
A	Good
B	Functional
C	Unsatisfactory
—	Not Applicable

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Metric Conversions

Table 10: Temperature Conversion Chart and Formula
Table 11: Distance and Weight Conversion Formulas

Table 10: Temperature Conversion Chart

°C ⟷ °F		°C ⟷ °F		°C ⟷ °F	
210	410	125	257	40	104
205	401	120	248	35	95
200	392	115	239	30	86
195	383	110	230	25	77
190	374	105	221	20	68
185	365	100	212	15	59
180	356	95	203	10	50
175	347	90	194	5	41
170	338	85	185	0	32
165	329	80	176	-5	23
160	320	75	167	-10	14
155	311	70	158	-15	5
150	302	65	149	-20	-4
145	293	60	140	-25	-13
140	284	55	131	-30	-22
135	275	50	122	-35	-31
130	266	45	113	-40	-40

Temp. Conversion Formulas

$$°C = \frac{5}{9}(°F - 32)$$

$$°F = \frac{9}{5}°C + 32$$

Table 11: Distance and Weight Conversion Formulas

To Convert:	Multiply by:
Inches to millimeters	25.4
Millimeters to inches	.03937
Meters to feet	3.2808
Feet to meters	.3048
Kilometers to feet	3280.8
Feet to kilometers	.0003048
Kilograms to pounds	2.205
Pounds to kilograms	.4536
Pounds/1000 feet to pounds/1000 meters	3.2808
Pounds/1000 feet to kilograms/1000 meters	1.4882
Kilograms/1000 meters to pounds/1000 feet	.6719

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Metric Conversions

Table 12: Conductor Size Equivalents (mm²/ inch²/ circular mils / AWG)

Sq. mm	Sq. in.	Cir. mils.	AWG
1000	1.550	1974000	
975	1.511	1924700	
950	1.472	1875300	
925	1.434	1826000	
900	1.395	1776600	
875	1.356	1727300	
850	1.317	1677900	
825	1.279	1628600	
800	1.240	1579200	
775	1.201	1529900	
750	1.163	1480500	
725	1.124	1431200	
700	1.085	1381800	
675	1.046	1332500	
650	1.008	1283100	
625	.969	1233800	
600	.930	1184400	
575	.891	1135100	
550	.853	1085700	
525	.814	1036400	
500	.775	987000	
475	.736	937700	
450	.698	888300	
425	.659	839000	
400	.620	789600	
375	.581	740300	
350	.542	690900	
325	.504	641600	
300	.465	592200	
275	.426	542900	
250	.388	493500	
225	.349	444200	
200	.310	394800	
175	.271	345500	
150	.233	296100	
125	.1938	246800	
—	—	211600	4/0
100	.1550	197400	
95	.1472	187530	
90	.1395	177660	
—	—	167800	3/0
85	.1317	167790	
80	.1240	157920	
75	.1163	148050	
70	.1085	138180	
—	—	133100	2/0
65	.1008	128310	
60	.0930	118440	
55	.0853	108570	
—	—	105600	1/0
50	.0775	98700	
45	.0698	88830	
—	—	83690	1
40	.0620	78960	
35	.0542	69090	
—	—	66360	2
30	.0465	59220	
—	—	52620	3
25	.0388	49350	
—	—	41740	4
20.0	.0310	39480	
19.5	.0302	38490	
19.0	.0294	37510	
18.5	.0287	36520	
18.0	.0279	35530	
17.5	.0271	34550	
17.0	.0264	33560	
—	—	33090	5
16.5	.0256	32560	
16.0	.0248	31580	
15.5	.0240	30600	
15.0	.0233	29610	
14.5	.0225	28620	
14.0	.0217	27640	
13.5	.0209	26650	
—	—	26420	6
13.0	.0201	25660	
12.5	.0194	24680	
12.0	.0186	23690	
11.5	.0178	22700	
11.0	.0171	21710	
—	—	20820	7
10.5	.0163	20730	
10.0	.0155	19740	
9.5	.01472	18753	
9.0	.01395	17766	
8.5	.01317	16779	
—	—	16510	8
8.0	.01240	15792	
7.5	.01163	14805	
7.0	.01085	13818	
—	—	13090	9
6.5	.01008	12831	
6.0	.00930	11844	
5.5	.00853	10857	
—	—	10380	10
5.00	.00775	9870	
4.75	.00736	9377	
4.50	.00698	8883	
4.25	.00659	8390	
—	—	8230	11
4.00	.00620	7896	
3.75	.00581	7403	
3.50	.00542	6909	
—	—	6530	12
3.25	.00504	6416	
3.00	.00465	5922	
2.75	.00426	5429	
—	—	5180	13
2.50	.00388	4935	
2.25	.00349	4422	
—	—	4110	14
2.00	.00310	3948	
1.75	.00271	3455	
—	—	3260	15
1.50	.00233	2961	
—	—	2580	16
1.25	.00194	2468	
—	—	2050	17
1.00	.00155	1974	
.90	.00140	1777	
—	—	1620	18
.80	.00124	1579	
.75	.00116	1481	
.70	.00109	1382	
—	—	1290	19
.60	.00093	1184	
—	—	1029	20
.50	.000775	987	

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Belden® Color Code Charts

Color Code Chart No. 1

Cond. No.	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Gray
11	Pink
12	Tan

18 Gage conductors in cables 8446 through 8449 are Black and White.

Color Code Chart Nos. 2 and 2R — ICEA (Insulated Cable Engineers Association) Standard*

Cond. No.	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black Stripe
8	Red/Black Stripe
9	Green/Black Stripe
10	Orange/Black Stripe
11	Blue/Black Stripe
12	Black/White Stripe
13	Red/White Stripe
14	Green/White Stripe
15	Blue/White Stripe
16	Black/Red Stripe
17	White/Red Stripe
18	Orange/Red Stripe
19	Blue/Red Stripe
20	Red/Green Stripe
21	Orange/Green Stripe
22	Black/White/Red
23	White/Black/Red
24	Red/Black/White
25	Green/Black/White
26	Orange/Black/White
27	Blue/Black/White
28	Black/Red/Green
29	White/Red/Green
30	Red/Black/Green
31	Green/Black/Orange
32	Orange/Black/Green
33	Blue/White/Orange
34	Black/White/Orange
35	White/Red/Orange
36	Orange/White/Blue
37	White/Red/Blue
38	Black/White/Green
39	White/Black/Green
40	Red/White/Green
41	Green/White/Blue
42	Orange/Red/Green
43	Blue/Red/Green
44	Black/White/Blue
45	White/Black/Blue
46	Red/White/Blue
47	Green/Orange/Red
48	Orange/Red/Blue
49	Blue/Orange/Red
50	Black/Orange/Red

* 2 = Spiral Stripe
2R = Ring Band Striping

Color Code Chart No. 3 for Paired Cables (Belden Standard)

Pair No.	Color Combination
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue
16	Green & Yellow
17	Green & Brown
18	Green & Orange
19	White & Blue
20	White & Yellow
21	White & Brown
22	White & Orange
23	Blue & Yellow
24	Blue & Brown
25	Blue & Orange
26	Brown & Yellow
27	Brown & Orange
28	Orange & Yellow
29	Purple & Orange
30	Purple & Red
31	Purple & White
32	Purple & Green
33	Purple & Blue
34	Purple & Yellow
35	Purple & Brown
36	Purple & Black
37	Gray & White

Color Code Chart No. 4 for Paired Cables

Pair No.	Color Combination
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Gray
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Gray
11	Black & Blue
12	Black & Orange
13	Black & Green
14	Black & Brown
15	Black & Gray
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Gray
21	Purple & Blue
22	Purple & Orange
23	Purple & Green
24	Purple & Brown
25	Purple & Gray

Color Code Chart No. 5 for Paired Cables (Western Electric Standard)

Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Gray Stripe & Gray/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Gray Stripe & Gray/Red Stripe
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Gray Stripe & Gray/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Gray Stripe & Gray/Yellow Stripe
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe
25	Purple/Gray Stripe & Gray/Purple Stripe

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Belden® Color Code Charts

Color Code Chart No. 6

Position No.	Color	Position No.	Color
1	Brown	13	White/Orange
2	Red	14	White/Yellow
3	Orange	15	White/Green
4	Yellow	16	White/Blue
5	Green	17	White/Purple
6	Blue	18	White/Gray
7	Purple	19	White/Black/Brown
8	Gray	20	White/Black/Red
9	White	21	White/Black/Orange
10	White/Black	22	White/Black/Yellow
11	White/Brown	23	White/Brown/Green
12	White/Red	24	White/Black/Blue

Chart No. 9: IBM RISC System/6000

Cond. No.	Color
1	White over Blue
2	White over Orange
3	White over Green
4	White over Brown
5	White over Gray
6	White over Red
7	White over Yellow

Pair No.	Color Combination
1	White over Blue & Blue over White
2	White over Orange & Orange over White
3	White over Green & Green over White

Chart No. 10: Fiber Optics*

Fiber/ Tube No.	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Gray
6	White
7	Red
8	Black
9	Yellow
10	Purple
11	Rose
12	Aqua

*Per TIA/EIA 598-A

Color Code Chart No. 7 for Snake Cables

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Brown	16	Gray/Yellow Stripe	31	Blue/Purple Stripe	46	Lime/Black Stripe
2	Red	17	Gray/Green Stripe	32	Blue/Gray Stripe	47	Lime/Tan Stripe
3	Orange	18	Gray/Blue Stripe	33	Blue/White Stripe	48	Lime/Pink Stripe
4	Yellow	19	Gray/Purple Stripe	34	Blue/Black Stripe	49	Aqua/Brown Stripe
5	Green	20	Gray/Gray Stripe	35	Blue/Tan Stripe	50	Aqua/Red Stripe
6	Blue	21	Gray/White Stripe	36	Blue/Pink Stripe	51	Aqua/Orange Stripe
7	Purple	22	Gray/Black Stripe	37	Lime/Brown Stripe	52	Aqua/Yellow Stripe
8	Gray	23	Gray/Tan Stripe	38	Lime/Red Stripe	53	Aqua/Green Stripe
9	White	24	Gray/Pink Stripe	39	Lime/Orange Stripe	54	Aqua/Blue Stripe
10	Black	25	Blue/Brown Stripe	40	Lime/Yellow Stripe	55	Aqua/Purple Stripe
11	Tan	26	Blue/Red Stripe	41	Lime/Green Stripe	56	Aqua/Gray Stripe
12	Pink	27	Blue/Orange Stripe	42	Lime/Blue Stripe	57	Aqua/White Stripe
13	Gray/Brown Stripe	28	Blue/Yellow Stripe	43	Lime/Purple Stripe	58	Aqua/Black Stripe
14	Gray/Red Stripe	29	Blue/Green Stripe	44	Lime/Gray Stripe	59	Aqua/Tan Stripe
15	Gray/Orange Stripe	30	Blue/Blue Stripe	45	Lime/White Stripe	60	Aqua/Pink Stripe

Color Code Chart No. 8 for DataTwist® Cables (Modified Western Electric)

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White/Blue Stripe & Blue	6	Red/Blue Stripe & Blue/Red Stripe	11	Black/Blue Stripe & Blue/Black Stripe	16	Yellow/Blue Stripe & Blue/Yellow Stripe	21	Purple/Blue Stripe & Blue/Purple Stripe
2	White/Orange Stripe & Orange	7	Red/Orange Stripe & Orange/Red Stripe	12	Black/Orange Stripe & Orange/Black Stripe	17	Yellow/Orange Stripe & Orange/Yellow Stripe	22	Purple/Orange Stripe & Orange/Purple Stripe
3	White/Green Stripe & Green	8	Red/Green Stripe & Green/Red Stripe	13	Black/Green Stripe & Green/Black Stripe	18	Yellow/Green Stripe & Green/Yellow Stripe	23	Purple/Green Stripe & Green/Purple Stripe
4	White/Brown Stripe & Brown	9	Red/Brown Stripe & Brown/Red Stripe	14	Black/Brown Stripe & Brown/Black Stripe	19	Yellow/Brown Stripe & Brown/Yellow Stripe	24	Purple/Brown Stripe & Brown/Purple Stripe
5	White/Gray Stripe & Gray/White Stripe	10	Red/Gray Stripe & Gray/Red Stripe	15	Black/Gray Stripe & Gray/Black Stripe	20	Yellow/Gray Stripe & Gray/Yellow Stripe	25	Purple/Gray Stripe & Gray/Purple Stripe

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Belden® Color Code Charts

ICEA Table E1*

Cond. No.	Base Color	Tracer	Tracer	Cond. No.	Base Color	Tracer	Tracer
1	Black	—	—	26	Orange	Black	White
2	White	—	—	27	Blue	Black	White
3	Red	—	—	28	Black	Red	Green
4	Green	—	—	29	White	Red	Green
5	Orange	—	—	30	Red	Black	Green
6	Blue	—	—	31	Green	Black	Orange
7	White	Black	—	32	Orange	Black	Green
8	Red	Black	—	33	Blue	White	Orange
9	Green	Black	—	34	Black	White	Orange
10	Orange	Black	—	35	White	Red	Orange
11	Blue	Black	—	36	Orange	White	Blue
12	Black	White	—	37	White	Red	Blue
13	Red	White	—	38	Black	White	Green
14	Green	White	—	39	White	Black	Green
15	Blue	White	—	40	Red	White	Green
16	Black	Red	—	41	Green	White	Blue
17	White	Red	—	42	Orange	Red	Green
18	Orange	Red	—	43	Blue	Red	Green
19	Blue	Red	—	44	Black	White	Blue
20	Red	Green	—	45	White	Black	Blue
21	Orange	Green	—	46	Red	White	Blue
22	Black	White	Red	47	Green	Orange	Red
23	White	Black	Red	48	Orange	Red	Blue
24	Red	Black	White	49	Blue	Red	Orange
25	Green	Black	White	50	Black	Orange	Red

Pair cables are Black, White and numbered. Triad cables are Black, White, Red and numbered.

ICEA Table E2*

Cond. No.	Base Color	Tracer	Cond. No.	Base Color	Tracer
1	Black	—	19	Orange	Blue
2	Red	—	20	Yellow	Blue
3	Blue	—	21	Brown	Blue
4	Orange	—	22	Black	Orange
5	Yellow	—	23	Red	Orange
6	Brown	—	24	Blue	Orange
7	Red	Black	25	Yellow	Orange
8	Blue	Black	26	Brown	Orange
9	Orange	Black	27	Black	Yellow
10	Yellow	Black	28	Red	Yellow
11	Brown	Black	29	Blue	Yellow
12	Black	Red	30	Orange	Yellow
13	Blue	Red	31	Brown	Yellow
14	Orange	Red	32	Black	Brown
15	Yellow	Red	33	Red	Brown
16	Brown	Red	34	Blue	Brown
17	Black	Blue	35	Orange	Brown
18	Red	Blue	36	Yellow	Brown

Pair cables are Black, Red and numbered. Triad cables are Black, Red, Blue and numbered.
Colors repeat after 36 conductors. There are no Green or White conductors or stripes.

*Reference ICEA S-73-532

ICEA Method 4: All conductors Black*

Cond.	Conductor Printing	Cond.	Conductor Printing
1st	"1–ONE–1"	26th	"26–TWENTY-SIX–26"
2nd	"2–TWO–2"	27th	"27–TWENTY-SEVEN–27"
3rd	"3–THREE–3"	28th	"28–TWENTY-EIGHT–28"
4th	"4–FOUR–4"	29th	"29–TWENTY-NINE–29"
5th	"5–FIVE–5"	30th	"30–THIRTY–30"
6th	"6–SIX–6"	31st	"31–THIRTY-ONE–31"
7th	"7–SEVEN–7"	32nd	"32–THIRTY-TWO–32"
8th	"8–EIGHT–8"	33rd	"33–THIRTY-THREE–33"
9th	"9–NINE–9"	34th	"34–THIRTY-FOUR–34"
10th	"10–TEN–10"	35th	"35–THIRTY-FIVE–35"
11th	"11–ELEVEN–11"	36th	"36–THIRTY-SIX–36"
12th	"12–TWELVE–12"	37th	"37–THIRTY-SEVEN–37"
13th	"13–THIRTEEN–13"	38th	"38–THIRTY-EIGHT–38"
14th	"14–FOURTEEN–14"	39th	"39–THIRTY-NINE–39"
15th	"15–FIFTEEN–15"	40th	"40–FORTY–40"
16th	"16–SIXTEEN–16"	41st	"41–FORTY-ONE–41"
17th	"17–SEVENTEEN–17"	42nd	"42–FORTY-TWO–42"
18th	"18–EIGHTEEN–18"	43rd	"43–FORTY-THREE–43"
19th	"19–NINETEEN–19"	44th	"44–FORTY-FOUR–44"
20th	"20–TWENTY–20"	45th	"45–FORTY-FIVE–45"
21st	"21–TWENTY-ONE–21"	46th	"46–FORTY-SIX–46"
22nd	"22–TWENTY-TWO–22"	47th	"47–FORTY-SEVEN–47"
23rd	"23–TWENTY-THREE–23"	48th	"48–FORTY-EIGHT–48"
24th	"24–TWENTY-FOUR–24"	49th	"49–FORTY-NINE–49"
25th	"25–TWENTY-FIVE–25"	50th	"50–FIFTY–50"

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Cable Standards Reference Guide

National Electrical Code (NEC)® Catalog Reference Information

The National Electrical Code is a set of guidelines describing procedures which minimize the hazards of electrical shock, fires, and explosions caused by electrical installation. The text of the NEC is contained in nine chapters, each chapter broken into individual articles.

NEC types are acronyms consisting of a prefix describing cable type (e.g. coax, CATV, fiber optic) and a suffix indicating the type of flame test it has passed and where it can be installed. Articles describing wire and cable products — including required cable markings — are listed in the chart to the right.

Impact of the NEC

Almost everyone involved with wire and cable is affected by the National Electrical Code. In particular, the following groups must incorporate NEC guidelines into their work: OEM engineers, wire and cable product engineers, distributors, installers, and architects.

Although NEC covers wire and cable installed in factories, office buildings, hotels, motels, apartment buildings, residences, and all cables which pass through any floor, wall, ceiling, or which travel in ducts, plenums, and other air handling spaces,each individual municipality, city, county, or state can decide whether or not they wish to adopt the 2002 NEC as law. Local authorities having jurisdiction enforce their own codes. They have the right to accept or refuse any installation in accordance with their own local laws. One of the organizations local inspectors rely on to test wire and cable is Underwriters Laboratories (UL).

Intended Uses of Appliance Wiring Materials (AWM)

In the past, AWM cable was incorrectly used to wire buildings—this was never its intended use.

AWM cable is intended for internal wiring of factory-assembled, listed appliances such as computers, business machines, ranges, washers, dryers, radios, and televisions.

In some cases, AWM cable may be used for external connection. In these situations, the user should be aware that AWM cable temperatures and voltage ratings may differ from NEC ratings.

NEC Article/Type		Description	Installation Type			
			Plenum	Riser	Commercial	Residential
725	**CL2**	Class 2 cables	CL2P	CL2R	CL2	CL2X*
	CL3	Class 3 cables	CL3P	CL3R	CL3	CL3X*
	PLTC	A stand-alone class. This is a power limited tray cable — a CL3-type cable which can be used outdoors, is sunlight- and moisture-resistant and must pass the Vertical Tray flame test.	(none)	(none)	PLTC	(none)
760	**FPL**	Power limited, fire protective signaling circuit cable	FPLP	FPLR	FPL	(none)
770	**OFC**	Fiber cable also containing metallic conductors	OFCP	OFCR	OFCG, OFC	(none)
	OFN	Fiber cable only containing optical fibers	OFNP	OFNR	OFNG, OFN	(none)
800	**CM**	Communications	CMP	CMR	CMG, CM	CMX*
	MP	Multi-Purpose Cables	MPP	MPR	MPG, MP	(none)
820	**CATV**	Community antenna television and radio distribution system	CATVP	CATVR	CATV	CATVX**
830	**BM**	Network-powered broadband communications cable	BLP	BMR	BM	BLX

*Cable diameter must be less than 0.250″ **Cable diameter must be less than 0.375″

C(UL) Certifications

UL/NEC-Approved cables may also be C(UL)/CEC-Approved as communications cables meeting the requirements of the Bi-National Standard CSA C22.2 No. 214/ UL 444 and Section 60 of the Canadian Electrical Code, Part I (CEC). The C(UL) cable designation (and its meaning) would be one of the following:

1. **CMP** — Cable meeting CSA FT7 or NFPA 262 (UL 910);
2. **CMR** — Cable meeting UL 1666;
3. **CMG** — Cable meeting CSA FT4;
4. **CM** — Cable meeting UL 1685 (UL 1581, Sec. 1160) Vertical-Tray;
5. **CMX** — meeting UL 1581, Sec. 1080 (VW-1);
6. **CMH** — Cable meeting CSA FT1.

NOTE: The CSA flame tests are defined in CSA C22.2 No. 0.3 as follows:

FT1 Vertical Flame Test — per C.S.A. C22.2 No. 0.3-92 Para 4.11.1

A finished cable shall not propagate a flame or continue to burn for more than one (1) minute after five (5) fifteen (15) second applications of the test flame. There is an interval of fifteen (15) seconds between flame applications. The flame test shall be performed in accordance with Para 4.11.1 of Canadian Standards Association (CSA) Standard C22.2 No. 0.3. In addition, if more than 25% of the indicator flag is burned, the test cable fails.

FT4 Vertical Flame Test — Cables in Cable Trays per C.S.A. C22.2 No. 0.3-92 Para 4.11.4

The FT4 Vertical Flame Test — Cables in Cable Trays is similar to the UL-1685 Vertical Tray Flame Test, but is more severe. The FT4 test has its burner mounted at 20° from the horizontal with the burner ports facing up. The UL-1685 Vertical Tray has its burner at 0° from the horizontal. The FT4 samples must be larger than 13mm (.512″) in diameter.

If not, then the cable samples are grouped in units of at least three (3) to obtain a grouped overall diameter of 13mm. The UL-1581 Vertical Tray does not distinguish on cable size. The FT4 has a maximum char height of 1.5 m (59″) measured from the lower edge of the burner face. The UL-1685 has a flame height allowable up to approximately 78″ measured from the burner.

FT6 Horizontal Flame & Smoke Test — per C.S.A. C22.2 No. 0.3-92 Appendix B

Belden® products passing the FT6 Horizontal Flame and Smoke Test are designated FT6 in the column where the trade number appears. This test is for cables which must pass a Horizontal Flame and Smoke Test in accordance with ANSI/NFPA Standard 262-1985 (UL-910). The maximum flame spread shall be 1.50 meters (4.92 ft.). The smoke density shall be 0.5 at peak optical density and 0.15 at maximum average optical density.

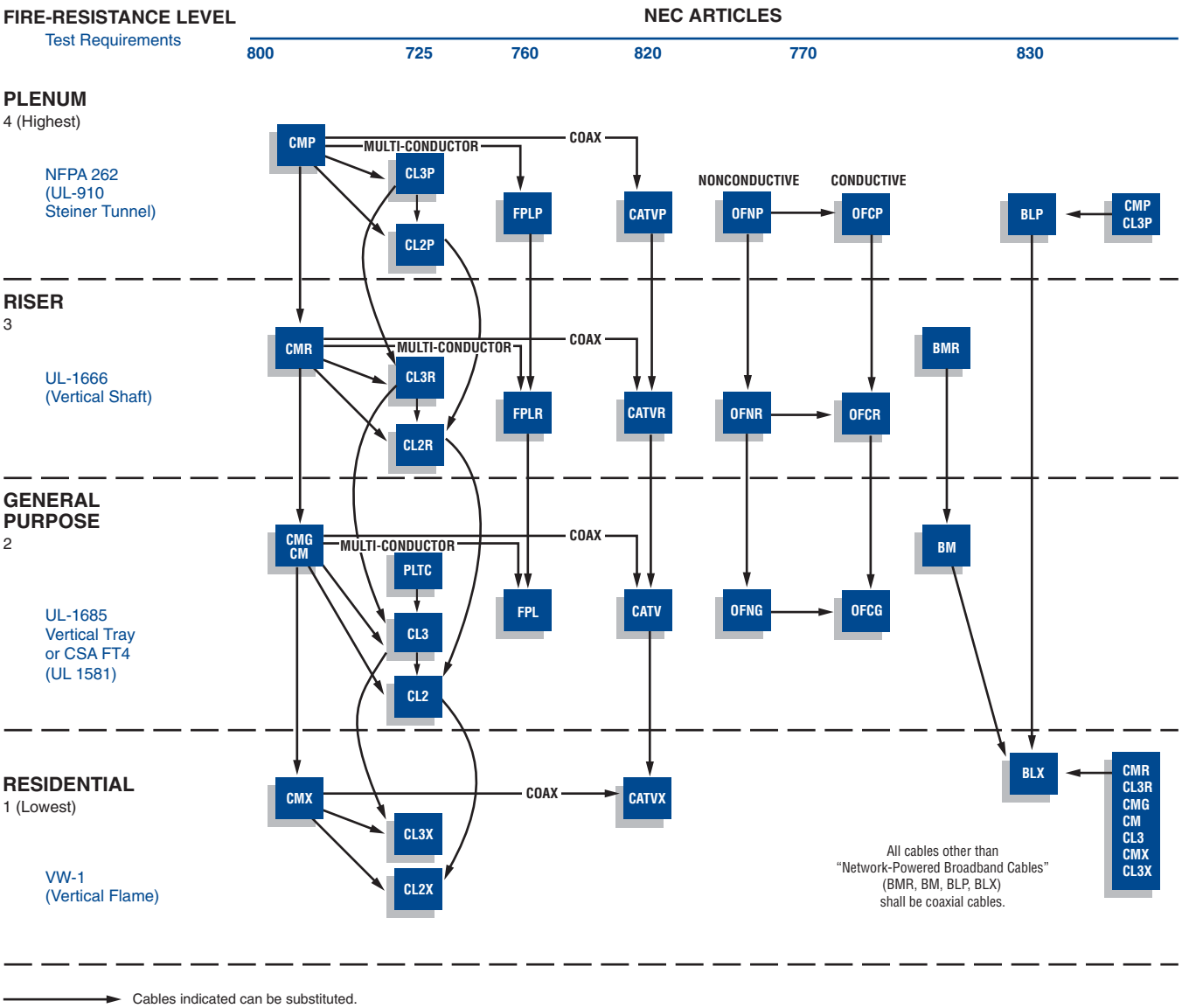
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Cable Substitution Chart

Per 2005 NEC®



NEC Type	Definition
CMP, CMR, CMG, CM, CMX	Communications Cables
CL3P, CL3R, CL3, CL3X, CL2P, CL2R, CL2, CL2X	Class 2 and Class 3 Remote-Control, Signaling and Power Limited Cables
FPLP, FPLR, FPL	Power Limited Fire Alarm Cables
CATVP, CATVR, CATV, CATVX	Community Antenna Television and Radio Distribution Cables
OFNP, OFNR, OFNG, OFN	Nonconductive Optical Fiber Cables
OFCP, OFCR, OFCG, OFC	Conductive Optical Fiber Cables
PLTC	Power Limited Tray Cables
BMR, BM, BLP, BLX	Network-powered Broadband Communications Cable

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Canadian Electrical Code (CEC) Substitution Chart
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Cable Substitution Hierarchy as per C22.2 #214 — Communication Cables

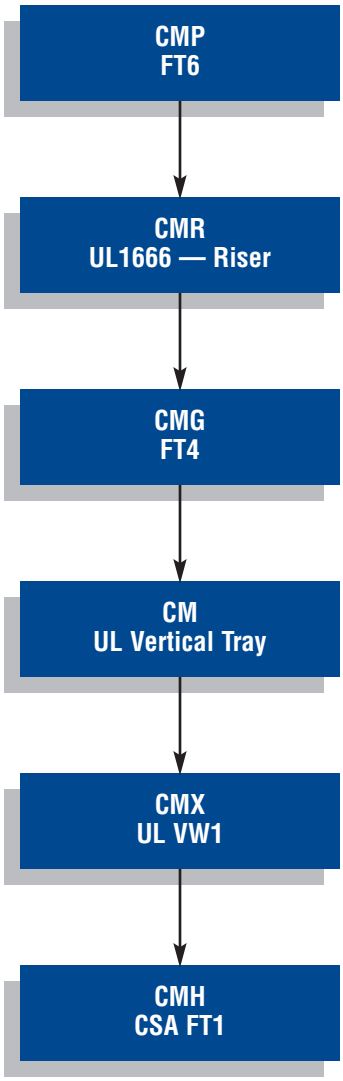
Canadian Electrical Code, Part 1, Table 19, Note 22:

The following cable substitution may be used:

a. Communication cables marked MPP, CMP, MPR, CMR, MPG, CMG, MP, CM, CMX, CMH, FT6, and FT4 have been found to meet the standard criteria for FT1.

b. Communication cables marked MPP, CMP, MPR, CMR, MPG, CMG, and FT6 have been found to meet the standard criteria for FT4.

c. Communication cables marked MPP and CMP have been found to meet the standard criteria for FT6.



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Environmental Regulations and Compliance

Heavy Metal Free, RoHS and Prop 65

Over the past several years, increased attention has been placed upon the potential environmental impacts of electronic products. Both voluntary and regulatory measures have been taken to address some of these concerns. Already in place are California Proposition 65 and the European Union End-of-Life Vehicle (ELV) and Flame Retardant Directives. The next major impact will be the European Union Restriction on Hazardous Substances (RoHS) Directive that will restrict the use of heavy metal substances (Lead, for example) in electronic products in July 2006. There are also several states and countries currently considering their own legislation on this topic.

The use of materials that are environmentally friendly is of growing concern to Belden, its customers and to the global community. Belden is engaged in a division-wide project to integrate into its product designs and supplier requirements a formalized program to restrict the use of these materials by January 2006. The following list of materials represents examples of substances that Belden is eliminating or reducing in certain applications:

- Asbestos and its compounds
- Cadmium and its compounds
- Chromium VI and its compounds
- Lead and its compounds
- Mercury and its compounds
- Polybrominated biphenyls (PBBs) and their ethers/oxides (PBDEs, PBBEs)
- Di-(2-ethylhexly)phthalate (DEHP)
- Penta-, Octa- BDE Brominated flame retardants

As a result of this project, many of Belden's products are now, heavy metal free and meet the requirements of both RoHS and California Proposition 65. For a more detailed definition of the above named regulations, please consult the glossary of terms located in the back of the catalog. Contact Belden Customer Service or visit **www.belden.com** for more specific product details and current compliance information.

RoHS Compliance

Unless so marked, cables in this catalog do not contain any of the following restricted substances, as an intentional additive, and is therefore compliant with European Directive 2002/95/EC (RoHS), European Directive 2000/53/EC (ELV), European Directive 2003/11/EC (BFR), European Directive 2002/96/EC (WEEE), and California Proposition 65 Consent Judgement for Wire & Cable Manufactures [San Francisco Superior Court Nos. 312962 and 320342] (Prop 65).

For customer convenience, Belden products that are in compliance with these directives contain the identification "ROHS" within the text of the jacket surface printing and also an environmentally friendly logo (as shown at right) on package labeling.



Substance	Maximum Concentration*
Lead	0.03%
Mercury	0.10%
Hexavalent Chromium	0.10%
PBB, PBDE**	0.10%
Cadmium	0.01%

*Per homogeneous material, as trace or contaminate amount.

**Some Belden cables may contain Decabromodiphynyl Oxide/Ether (PBDE) as a flame retardant. This substance is currently exempt from RoHS.

In addition, Belden products do not contain Asbestos and its compounds or Di-(2-ethylhexly)phthalate (DEHP).

This determination is based upon information obtained from sources which Belden believes are reliable, and from random sample testing at the Belden Engineering Center; however, the information is provided without any representation of warranty, expressed or implied, regarding accuracy or correctness. Belden does not specifically run any analysis on our raw materials or end product to measure for these substances.

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Cable Packaging

Belden, a recognized leader in state-of-the-art packaging design, has introduced a variety of packaging styles and options for the convenience of our customers:

UnReel®

A wide variety of Belden® cable and plenum cable is available in Belden's UnReel cardboard dispenser.

Belden UnReel is a unique packaging/dispensing system developed to save time, cut costs and labor, and eliminate the need for dereeling equipment.

Lightweight and more economical than conventional drums or reels, UnReel dispensers have pre-punched handles for easy, individual transport as well as rectangular boxes for easy pallet delivery and storage. Unreeled cable pays out smoothly and evenly with no kinking, twisting, or backlashing. It also rolls out 60% faster per hour than conventionally packaged cable.

UnReel ships, stores and dispenses in one carton, which — since its introduction — has always been fully recyclable and biodegradable. Look for the letter "U" in the put-up ("Length") description.

Reel-In-A-Box

Belden's Reel-In-A-Box facilitates cable payout, making installations quicker and easier. And because it's primarily corrugated fiberboard material with plastic inserts, it weighs less than wooden crate reels. That makes it easier to handle and dispose of, as well as less costly to ship.

A 5″ barrel, standard on every Belden® Reel-In-A-Box, helps eliminate memory — a typical problem encountered with 3″ barrels used by other manufacturers.

The new Reel-In-A-Box is extremely durable. It has passed cold drop tests to -30°C, which translates to maximum protection on the job as well as in shipping. Look for the letter "A" in the put-up description.

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Glossary of Terms

5-Mil Copper — Solid Copper Shield. Provides added electrical protection.

802.14 — IEEE's Cable TV MAC and PHY Protocol Working Group.

10GBASE-T — IEEE standard for 10 Gigabit Ethernet transmission over copper.

10GX® — Belden's most advanced end-to-end UTP structured cabling system delivering guaranteed performance of 625 MHz and data-rates of 10Gb/s.

A — Ampere.

ABR — Available Bit Rate.

Abrasion Resistance — Ability of a wire, cable or material to resist surface wear.

Abrasion Stripper — More accurately described as "buffing stripper," which is a motorized device for removing flat cable insulation by means of one or two buffing wheels that melt the insulation and brush it away from the conductors.

AC — Alternating current. Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

Accelerated Aging — A test that simulates long time environmental conditions in a relatively short time.

ACMC — Alien Crosstalk Margin Computation is the Pass/Fail criteria to determine if a channel complies with 10GBASE-T Alien noise requirements.

ACR — Attenuation Crosstalk Ratio. The difference between attenuation and crosstalk, measured in dB, at a given frequency. Important characteristic in networking transmission to assure that signal sent down a twisted pair is stronger at the receiving end of the cable than are any interference signals imposed on that same pair by crosstalk from other pairs.

ADSL — Asymmetric Digital Subscriber Line.

AES/EBU — Informal name of a digital audio standard established jointly by the AES (Audio Engineering Society) and EBU (European Broadcast Union) organizations.

AF — Audio frequency.

AFEXT — Alien far-end crosstalk loss is a measure of the unwanted signal coupling from near-end disturbing channel pairs into a disturbed pair of a neighboring channel or part thereof, measured at the far-end.

Air Core — Cables that are not gel filled.

Air-Gap Dielectric — A coaxial design in which a monofilament of plastic holds the center conductor in place in a hollow plastic tube allowing the remainder of the dielectric to be air. Typical velocities of up to 84% can be achieved in this design.

Alien crosstalk — A measure of the unwanted signal coupling between cabling or components in close proximity.

Alloy — A combination of two or more different polymers/metals. Usually combined to make use of different properties of each polymer/metal.

Alpeth — Coated Aluminum Polyethylene. Basic sheath.

Alternating Current (AC) — Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

AM — Amplitude modulation.

Ambient — Conditions that exist in the environment of the cable. Conditions existing at a test or operating location prior to energizing equipment (e.g. ambient temperature).

American Wire Gage (AWG) — A standard for expressing wire diameter. As the AWG number gets smaller, the wire diameter gets larger.

Ampacity — Current handling capability expressed in amperes. The maximum current a conductor can carry without being heated beyond a safe limit.

Ampere — A standard unit of current. Defined as the amount of current that flows when one volt of electromotive force (EMF) is applied across one ohm of resistance. One ampere of current is produced by one coulomb of charge passing a point in one second.

Amplitude — The magnitude of a current or voltage. It can be the maximum, minimum, average or RMS value of an alternating current (AC) signal. These four magnitudes are the same for a direct current (DC) signal.

Analog — Representation of data by continuously variable quantities as opposed to a finite number of discrete quantities in digital.

Analog Signal — An electrical signal which varies continuously, not having discrete values. Analog signals are copies or representations of other waves in nature. An analog audio signal, for instance, is a representation of the pressure waves which make up audible sound.

ANEXT — Alien near-end crosstalk loss is a measure of the unwanted signal coupling from near-end disturbing channel pairs into a disturbed pair of a neighboring channel or part thereof, measured at the near-end.

Anneal — To soften and relieve strains in any solid material, such as metal or glass, by heating to just below its melting point and then slowly cooling it. Annealing generally lowers the tensile strength of the material, while improving its flex life and flexibility.

ANSI — American National Standards Institute.

ASP — Aluminum Steel Polyethylene. Provides mechanical and electrical protection.

ASTM — The American Society for Testing and Materials, a standards organization which suggests test methods, definitions and practices.

Asynchronous Transfer Mode — The SONET standard for a packet switching technique which uses packets of a fixed length.

ATM — Asynchronous Transfer Mode.

Attenuation — The decrease in magnitude of a signal as it travels through any transmitting medium, such as a cable or circuitry. Attenuation is usually expressed logarithmically as the ratio of the original and decreased signal amplitudes. It is usually expressed in decibels (dB).

Audio — A term used to describe sounds within the range of human hearing (20 Hz to 20 kHz). Also used to describe devices which are designed to operate within this range.

Audio Frequency — Frequencies within the range of human hearing (approximately 20 Hz to 20 kHz).

Augmented Category 6 — TIA standard for a cabling system and components specified to 500MHz to support 10GBASE-T and other high frequency applications.

AWG — American Wire Gage. A wire diameter specification. The smaller the AWG number, the larger the wire diameter.

AWM — Appliance Wiring Material. A UL designation for a type of wire.

Backbone — The cable used to connect all systems of a multi-level distributed system to an intermediate system.

Backshell — Housing on a connector that covers the area where the cable conductors connect to the connector contacts. It can be a metal housing providing continuity of the shield through IDC connectors.

Balanced Line — A cable having two identical conductors which carry voltages opposite in polarity, but equal in magnitude with respect to ground, suitable for differential signal transmission.

Balun — Balanced to unbalanced (Bal-un) transformer used to connect an unbalanced transmission line (i.e. coaxial cable) to a balanced system or cable, or vice versa. It can also provide impedance transformation, as 300 ohm balanced to 75 ohm unbalanced.

Bandwidth — The difference between the upper and lower limits of a given band of frequencies. It is expressed in Hertz. The range of frequencies that a transmitted communications signal occupies or that a receiving system can accept. For example, it takes more bandwidth to download a photograph in a second than to download a page of text. Virtual reality and three-dimensional audio/visual presentations require even more.

Baud — Rate of digital transmission equal to the reciprocal of the time of one output signaling element.

Bel — A unit that represents the logarithm of the ratio of two levels. One bel equals the base 10 logarithm of the ratio of two power levels. It is also equal to the base 10 logarithm of square of the ratio of two voltage or current levels, provided the impedances are the same at the two levels. (See *dB*.)

Belden — A leading manufacturer of the specialty wire, cable and fiber products needed for new applications in data, audio, video and voice signal transmission, among other things.

Belflex® — A premium hybrid matte-finish jacket material that exhibits superior flexibility at low temperatures along with resistance compared to standard PVC jacketing materials.

Beldfoil® — Belden trademark for highly effective electrostatic shield of reinforced metallic foil.

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Glossary of Terms

Beldsol™ — Solderable Belden magnet wire combining insulating films of polyurethane for excellent dielectric characteristics and nylon for mechanical protection.

Bend Loss — A form of increased attenuation caused by (a) having an optical fiber curved around a restrictive radius of curvature or (b) microbends caused by minute distortions in the fiber imposed by externally induced perturbations.

Bend Radius — Radius of curvature that a flat, round fiber optic or metallic cable can bend without any adverse effects.

Binder — A tape or thread used for holding assembled cable components in place.

Bit — One binary digit.

Bit Error Rate — The number of errors occurring in a system per unit of time (e.g. bits per second).

Bits Per Second — The number of binary bits that can be transmitted per second (bps), i.e. Mbps (Mega = million), Gbps (Giga = billion).

BNC — Abbreviation for "Bayonet Neil-Concelman." A coaxial cable connector used extensively in video and RF applications and named for its inventors.

Bonded — 1) Adhesive application of a metallic shielding tape to the dielectric of a coaxial cable to improve electrical performance and ease of connector installation. Also refers to adhesive application of a metallic shielding tape to the jacket of a cable. 2) Steel is bonded to polyethylene with a copolymer adhesive. All Stalpeth and some ASP cables are bonded. Provides extra strength to jacket, primarily used in underground applications.

Bonded ASP — Aluminum Steel Polyethylene where the steel is bonded to polyethylene for strength. Filled cables for use in ducts.

Bonding — The method used to produce good electrical contact between metallic parts of any device. Used extensively in automobiles and aircraft to prevent static buildup. Also refers to the connectors and straps used to bond equipment.

Booster — An amplifier inserted into a cable to increase the signal amplitude in order to compensate for signal loss due to attenuation. This extends the transmission range of the cable. Transformers may be employed to boost AC voltages. The term booster is also applied to amplifiers used in television receiving antenna systems.

BPS — Bits per second. (See *Bits Per Second*.)

BPSK — Binary Phase Sift Keying. A type of digital transmission where two phases of the signal are possible to represent binary one and zero.

Braid — A group of textile or metallic filaments interwoven to form a tubular flexible structure which may be applied over one or more wires or flattened to form a strap.

Braid Angle — The angle between a strand of wire in a braid shield and the longitudinal axis (i.e. axis along the length of the center) of the cable it is wound around.

Breakdown Voltage — The voltage at which the insulation between two conductors will fail and allow electricity to conduct or "arc."

Breakout — The point at which a conductor or conductors are separated from a multi-conductor cable to complete circuits at various points along the main cable.

BRI — Basic Rate Interface ISDN.

Broadband — The technique used to multiplex multiple networks on a single cable without interfering with each other. Technologies that allow you to transmit or receive higher volumes of data at higher speeds.

Buffer — A protective coating over an optical fiber.

Buffing Stripper — A motorized device for removing flat cable insulation by means of one or two buffing wheels that melt the insulation and brush it away from the conductors. Also called Abrasion Stripper.

Bunch Strand — Conductors twisted together with the same lay and direction without regard to geometric pattern.

Buried — Cables that are required to go underground.

Bus-bar Wire — Uninsulated tinned copper wire used as a common lead.

Butyl Rubber — A synthetic rubber with good electrical insulating properties.

Byte — A group of eight adjacent binary digits (8 bits).

C — Capacitance (electrical). Celsius (temperature).

Cable — A group of individually insulated conductors or subcomponents twisted helically.

Cable Modem — A device that enables you to hook up your PC to a local cable TV line and receive data at much faster rates than telephone modems and ISDN lines. A strong competitor to DSL telephone service.

Cabling — The grouping or twisting together of two or more insulated conductors or subcomponents to form a cable.

CACSP — Coated Aluminum, Coated Steel, Polyethylene. Provides additional strength and protection.

California Proposition 65 (Prop 65) — Refers to the California Proposition 65 Consent Judgement for wire & cable manufacturers (San Francisco Superior Court nos. 312962 and 320342). ***Compliant Products*** have less than 300ppm of lead (by weight) in their outer surface layer. ***Exempt Products*** are those that are infrequently handled, manufactured before September 2003, distributed/sold outside the State of California, internal components not normally accessible to the consumer, or contain Prop 65 substances as part of the internal conductor or other component not normally accessible to the consumer. Contact Belden Customer Service or visit www.belden.com for product specific details.

Canadian Electrical Code (CEC) — Canadian version of the US National Electrical Code (NEC).

CAP — Carrierless Amplitude Phase Modulation.

Capacitance — The ability of a dielectric material between conductors to store energy when a difference of potential exists between the conductors. The unit of measurement is the farad. Cable capacitance is usually measured in picofarads (pF).

Capacitive Crosstalk — Cable crosstalk or interference resulting from the coupling of the electrostatic field of one conductor upon one or more others.

Capacitive Reactance — The opposition to alternating current due to the capacitance of a capacitor, cable or circuit. It is measured in ohms and is equal to $1/(2*pi*f*C)$ where pi is approximately 3.1416, f is the frequency in Hz and C is the capacitance in farads.

Capacitor — Two conducting surfaces separated by a dielectric material. The capacitance is determined by the area of the surfaces, type of dielectric and spacing between the conducting surfaces.

Carrier Strip — Also referred to as substrate. A film that is on one side of a laminated flat cable.

CASPIC — Coated Aluminum, Coated Steel.

Category — Rating of a local area network (LAN) cable established by TIA/EIA to indicate the level of electrical performance.

Category Cables — Belden manufactures Category 3 to 7 cables, all high performance twisted pair data cables. The higher the category number, the greater the bandwidth. Category 7 is currently the highest performance telecommunication wire available. Ours is certified to applicable UL standards.

CATV — Abbreviation for Community Antenna Television. Cable TV.

CB — Citizens band.

CBR — Constant Bit Rate.

CCTV — Closed-circuit television.

Cellular Polyethylene — Expanded or "foam" polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium. The result is a desirable reduction of the dielectric constant compared to solid polyethylene, which decreases attenuation and increases the velocity of propagation.

Center-to-Center Distance — Pitch. Nominal distance from center-to-center of adjacent conductors within a cable. When conductors are flat, pitch is usually measured from the reference edge of a conductor to the reference edge of the adjacent conductor.

Channel — The horizontal cable including the workstation outlet and patch panel in the telecommunications closet plus a maximum combined length of up to ten meters of patch cable at each end (maximum length of 100 meters).

Characteristic Impedance — In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or the impedance which makes a transmission cable seem infinitely long, when connected across the cable's output terminals.

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Glossary of Terms

Chrominance Signal — The portion of a video signal that contains the color information.

Circuit — A system of conducting media designed to pass an electric current.

Circular Mil — Area of a wire that is one-thousandth of an inch (.001 inch, one mil) in diameter. This area is pi/4 of a square mil. The circular mil area (CMA, cmil) equals the diameter in mils squared. By knowing the CMA of various conductors, they can be used to determine what conductivity and gage size various combinations will produce.

Cladding — A low refractive index material that surrounds the core of an optical fiber causing the transmitted light to travel down the core and protects against surface contaminant scattering or a layer of metal applied over another. Cladding is often chosen to improve conductivity or to resist corrosion.

CO — Central Office.

Coaxial Cable — A cylindrical transmission line composed of a conductor centered inside a metallic tube or shield, separated by a dielectric material, and usually covered by an insulating jacket. Used by cable TV companies to distribute signals to homes and businesses. Also used by telephone companies in some applications and by cellular telephone, radio and television installations.

Coil Effect — The inductive effect exhibited by a spiral-wrapped shield, especially above audio frequencies.

Color Code — A system of different colors or stripes used to identify components of cables such as individual conductors or groups of conductors.

COLS — Commercial Online Service.

Component Video — The unencoded output of a camera, video tape recorder, etc., whereby each red, green, and blue video signal is transmitted down a separate cable (usually coax) to improve picture quality. Can also refer to a video system where the luminance and chrominance video components are kept separate.

Composite Cable — Cable having conductors with two or more AWG sizes or more than one cable type.

Composite Video — The encoded output of a camera, video tape recorder, etc., whereby the red, green and blue video signals are combined with the synchronizing, blanking and color burst signals and are transmitted simultaneously down one cable.

Concentric Stranding — A group of uninsulated wires twisted together and containing a center core with subsequent layers spirally wrapped around the core with alternating lay directions to form a single conductor.

Conductivity — The ability of a material to allow electrons to flow, measured by the current per unit of voltage applied. It is the reciprocal of resistivity and is measured in siemens (S) or mhos.

Conductor — A substance, usually metal, used to transfer electrical energy from point to point.

Conduit — A tube of metal or plastic through which wire or cable can be run. Used to protect the wire or cable and, in the case of metal conduit, to contain the fire of a burning wire or cable.

Connector — A device designed to allow electrical flow from one wire or cable to a device on another cable. A connector will allow interruption of the circuit or the transfer to another circuit without any cutting of wire or cable or other preparation.

Copperweld® — Trademark of Copperweld Steel Co. for copper-clad steel conductor.

Cord — A very flexible insulated cable.

Core — The light conducting central portion of an optical fiber with a refractive index higher than that of the cladding. The center of a cable construction. Most often applies to a coaxial cable, where the core is the center conductor and the dielectric material applied to it.

Corona — The ionization of gasses about a conductor that results when the potential gradient reaches a certain value.

Coupling — The transfer of energy (without direct electrical contact) between two or more cables or components of a circuit.

Coverage — How well a metal shield covers the underlying surface. Measured in percent.

CPE — Chlorinated polyethylene can be used as either a thermoplastic or thermoset. It is a tough chemical- and oil-resistant material and makes an excellent jacket for industrial control cable. As a thermoset, it can be used as an oil-resistant cord jacket. Other outstanding properties include low water absorption and superior crush resistance, which are important attributes in industrial control applications.

CPS — Abbreviation for cycles per second. This term has been replaced by Hertz is common usage.

CPU — Central Processing Unit.

Crosstalk — A type of interference caused by signals from one pair or cable being coupled into adjacent pairs or cables. Can occur with audio, data or RF signals.

CRT — Cathode Ray Tube.

CSA — Abbreviation for Canadian Standards Association, the Canadian version of the Underwriters Laboratories.

CSMA/CD — Carrier Sense Multiple Access/ Collision Detection.

CSR — Customer Service Representative.

CUPIC — Copper.

Current Carrying Capacity — The maximum current a conductor can carry without being heated beyond a safe limit. Ampacity.

Current Loop — A two wire transmit/receive interface.

Current, Alternating (AC) — Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

Current, Direct (DC) — Electrical current whose electrons flow in one direction only and is generally constant.

Cut-through Resistance — A test to determine the ability of a material to withstand the application of blades or sharp edges without being cut.

D1 — A component digital video recording format that conforms to the CCIR-601 standard. Records on 19 mm magnetic tape. (Often used incorrectly to indicate component digital video.)

D2 — A composite digital video recording format. Records on 19 mm magnetic tape.

D3 — A composite digital video recording format. Records on 1/2 inch (12.7 mm) magnetic tape.

Daisy Chain — A cable assembly with three or more termination areas.

Datalene® — Belden trademark for foam polyolefin.

DAVIC — Digital Audio Video Council.

dB — Decibel.

DBS — Direct Broadcast Satellite.

DC — Direct current.

DC Resistance — See *Resistance.*

Decibel (dB) — A decibel is one-tenth of a bel and is equal to 10 times the logarithm of the power ratio, 20 times the log of the voltage ratio, or 20 times the log of the current ratio. Decibels are also used to express acoustic power, such as the apparent level of a sound. The decibel can express an actual level only when comparing with some definite reference level that is assumed to be zero dB.

Delay Line — A transmission line or equivalent device designed to delay a wave or signal for a specific length of time.

DEPIC — Dual Expanded Plastic Insulated Conductor (Foam Skin). Decreases outside diameter of cable.

Derating Factor — A multiplier used to reduce the current carrying capacity of conductors in more adverse environments, such as higher temperature, or where multiple conductors are together in one conduit.

DES — Data Encryption Standard.

DHCP — Dynamic Host Configuration Protocol.

Dielectric — An insulating (nonconducting) medium. It is the insulating material between conductors carrying a signal in a cable. In coaxial cables it is between the center conductor and the outer conductor. In twisted pair cables it is the insulation between conductors plus any surrounding air or other material.

Dielectric Breakdown — Any change in the properties of a dielectric that causes it to become conductive. Normally a catastrophic failure of an insulation because of excessive voltage.

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Dielectric Constant — Also called relative permittivity. That property of a dielectric which determines the amount of electrostatic energy that can be stored by the material when a given voltage is applied to it. Actually, the ratio of the capacitance of a capacitor using the dielectric to the capacitance of an identical capacitor using a vacuum (which has a dielectric constant of 1) as a dielectric. A number which indicates the quality of a material to resist holding an electrical charge when placed between two conductors.

Dielectric Heating — The heating of an insulating material when placed in a radio-frequency field, caused by internal losses during the rapid polarization reversal of molecules in the material.

Dielectric Loss — The power dissipated in a dielectric as the result of the friction produced by molecular motion when an alternating electric field is applied.

Dielectric Strength — The voltage an insulation can withstand before it breaks down. Usually expressed as volts per mil.

Dielectric Withstand Voltage — The voltage an insulation can withstand before it breaks down. Usually expressed as volts per mil.

Digital Signal — An electrical signal which possesses two distinct states (on/off, positive/negative).

Dispersion — The cause of bandwidth limitations in an optical fiber. Dispersion causes a broadening of input pulses along the length of the fiber. Two major types are (a) mode dispersion caused by differential optical path lengths in a multimode fiber, and (b) material dispersion caused by a differential delay of various wavelengths of light in a wave guide material.

Distortion — Any undesired change in a wave form or signal.

Distribution Cable — In a CATV system, the transmission cable between the distribution amplifier and the drop cable.

Disturbed Conductor — A conductor that receives energy generated by the field of another conductor or an external source, e.g. the quiet line.

DMT — Discrete Multitone.

DOCSIS — Data Over Cable Service Interface Specification™. Defines interface requirements for cable modems involved in high-speed data distribution over cable television system networks.

Drain Wire — A non-insulated wire in contact with parts of a cable, usually the shield, and used in the termination to that shield and as a ground connection.

Drop Cable — In a CATV system, the transmission cable from the distribution cable to a dwelling.

DSL — Digital Subscriber Line. A technology for bringing high-bandwidth information to homes and small businesses over ordinary copper telephone lines. A DSL line can carry both data and voice signals, with the data part of the line remaining continuously connected. Currently competes with the cable modem in bringing broadband services to homes and small businesses.

Duobond® II — Belden trademark for a laminated shielding tape consisting of heat sensitive adhesive, aluminum foil, polyester or polypropylene and aluminum foil.

Duobond Plus® — Belden trademark for a foil/braid/foil connection with a shorting fold in the outermost shield.

Duofoil® — Belden trademark for a shield in which metallic foil is applied to both sides of a supporting plastic film.

DVB — Digital Video Broadcasting.

E — Voltage (electromotive force).

Earth — British terminology for zero-reference ground.

Edge Margin — Margin.

EFP — Electronic Field Production. Video production for commercials, television shows and other non-news purposes done outside the studio.

EIA — Electronic Industries Association (formerly RMA or RETMA).

Elastomer — Any material that will return to its original dimensions after being stretched or distorted.

Electromagnetic — Referring to the combined electric and magnetic fields caused by electron motion through conductors.

Electromagnetic Coupling — The transfer of energy by means of a varying magnetic field. Inductive coupling.

Electron Volt — A measure of the energy gained by an electron passing through an electric field produced by one volt.

Electrostatic — Pertaining to static electricity or electricity at rest. An electric charge, for example.

Electrostatic Coupling — The transfer of energy by means of a varying electrostatic field. Capacitive coupling.

ELFEXT — Equal Level Far End Crosstalk (dB). A subtraction of attenuation from FEXT. By subtracting the attenuation, ELFEXT negates the effects of attenuation on the interference as it propagates down the cable, thus bringing it to an equal level.

Elongation — The increase in length of a wire or cable caused by longitudinal tension.

EMF — Electromotive force (voltage).

EMI — Electromagnetic Interference.

End of Life Vehicle (ELV) — Refers to EU directive 2000/53/EC (18-SEPT-2000), which bans the use of certain substances in automobiles. This would require the use of a HMF or RoHS compliant cable.

Energy — The capability of doing work.

Energy Dissipation — Loss of energy from a system due to the conversion of work energy into an undesirable form, usually heat. Dissipation of electrical energy occurs when current flows through a resistance.

ENG — Electronic News Gathering.

EPDM — Ethylene-propylene-diene monomer rubber. A chemically cross-linked elastomer with good electrical insulating properties and excellent flexibility at high and low temperatures. It has good insulation resistance and dielectric strength, as well as excellent abrasion resistance and mechanical properties. EPDM has better cut-through resistance than Silicone rubber, which it replaces in some applications.

EPR — Ethylene-propylene copolymer rubber. A material with good electrical insulating properties.

Equilay — More than one layer of helically laid wires with the length of the lay the same for each layer.

ETP — Abbreviation for a copper refining process called Electrolytic Tough Pitch. This process produces a conductor that is 99.95% pure copper (per ASTM B115) resulting in high conductivity.

eV — Electron volt.

Expanded Polyethylene — Expanded or "foam" polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a desirable reduction of the dielectric constant.

Extruded Cable — Conductors are simultaneously insulated and the cable is formed by a continuous extrusion process.

f — Frequency.

Farad — A unit of capacity that will store one coulomb of electrical charge when one volt of electrical pressure is applied.

FAS — Fire Alarm and Signal Cable, CSA (Canadian Standards Association) Cable Designation.

FAQ — Frequently Asked Question.

FCFC — Abbreviation for flat conductor flat cable.

FDDI — Fiber Distributed Data Interface.

FEC — Forward Error Correction.

Feedback — Energy that is extracted from a high-level point in a circuit and applied to a lower level. Positive feedback reduces the stability of a device and is used to increase the sensitivity or produce oscillation in a system. Negative feedback, also called inverse feedback, increases the stability of a system as the feedback improves stability and fidelity.

Feeder Cable — In a CATV system, the transmission cable from the head end (signal pickup) to the trunk amplifier. Also called a trunk cable.

FEP — Fluorinated ethylene-propylene. A thermoplastic material with good electrical insulating properties and chemical and heat resistance.

Ferrous — Composed of and/or containing iron. A ferrous metal exhibits magnetic characteristics.

FEXT — Far End Crosstalk. Crosstalk induced on the pairs, measured at the far end of the cable, referenced to the near end input signal. Usually expressed in decibels (dB).

Fiber — A single, separate optical transmission element characterized by core and cladding.

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Fiber Optics — Light transmission through optical fibers for communication and signaling. A technology that transmits information as light pulses along a glass or plastic fiber. Optical fiber carries much more information than conventional copper wire and is generally not subject to interference. Most telephone company long-distance lines are optical fiber. See RUS 1755.900.

Fiber to the home (FTTH) — A technology that provides voice, data and video services from the phone company's branch office to local customers over an all-fiber optic link. Still in its infancy, FTTH technology is substantially more expensive and labor-intensive to install and maintain than competing technologies.

Field — An area through which electric and/or magnetic lines of force pass.

Filled — Cables that are gel filled.

Fillers — Non-conducting components cabled with the insulated conductors or optical fibers to impart roundness, flexibility, tensile strength or a combination of all three to the cable.

Flamarrest® — Belden trademark for a plenum grade chloride-based thermoplastic jacketing material with low smoke and low flame spread properties; more flexible than traditional fluorocopolymer jacket materials. Cables jacketed with Flamarrest meet the ANSI/ NFPA Standard 2621-985 (UL-910) Flame Test.

Flame Resistance — The ability of a material not to fuel a flame once the source of heat is removed.

Flat Cable — Also referred to as planar and/or ribbon cable. Any cable with two or more parallel conductors in the same plane encapsulated by insulating material.

Flat Conductor — A conductor with a width-to-thickness ratio of arbitrarily 5 to 1 or greater.

Flat Conductor Cable — A flat cable with a plurality of flat conductors.

Flex Life — The qualification of the number of times a cable may bend before breaking.

Flexibility — The ability of a cable to bend in a short radius. The ability of a cable to lay flat or conform to a surface as with microphone cables.

FlexPoint PCB — Belden's patent-pending 10GX® Module design which reduces the compensation circuitry's time delay, ensuring stable high performance and enabling transmission rates of 625 MHz and data-rates of 10Gb/s.

Floating — Referring to a circuit which has no connection to ground.

Fluorocopolymer — Generic term for PVDF.

FM — Frequency modulation.

Foam Polyethylene — Expanded or "foam" polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a desirable reduction of the dielectric constant.

FR-TPE — FR-TPE, flame retarded thermoplastic elastomer, is a rubber-like plastic that has properties similar to rubber yet is processed as a thermoplastic. It is used as the insulation and jacket in an all TPE construction which meets UL 13 and 1277 industrial cable requirements. It has good electrical properties, abrasion resistance, colorability and flame retardance. This compound is ideal for cold weather applications.

FREP — Flame retardant ethylene propylene is a special flame retardant version of EPDM rubber. It is designed for use as an industrial control insulation and has excellent electrical characteristics, deformation resistance and also meets the flame retardant needs of industrial control cables.

Frequency — The number of times a periodic action occurs in one second. Measured in Hertz.

Frequency Response — The amplitude versus frequency characteristics of a device. Also may refer to the range of frequencies over which the device operates within prescribed performance.

Frequency, Power — Normally, the 50 or 60 Hz power used to operate most AC powered equipment. The frequency of AC power supplied by electric utilities companies.

FSK — Frequency Shift Keying.

FTTC — Fiber-to-the-Curb.

Gage — The physical diameter of a wire. A standard for expressing wire diameter. As the AWG number gets smaller, the wire diameter gets larger.

Gain — The increase of voltage, current, or power over a standard or previous reading. Usually expressed in decibels (dB).

Geosol — A solderable, extra tough film insulation developed by Belden for use in geophysical cables and miniature cables.

Giga — One billion.

Gigahertz (GHz) — A unit of frequency equal to one billion Hz.

GND — Ground.

Gopher — Gopher Resistant Copper Alloy. Provides shield and added protection in a single layer.

GOPIC — Gopher.

Graded-Index — A type of optical fiber in which the refractive index of the core is in the form of a parabolic curve, decreasing toward the cladding. This type of fiber provides high bandwidth capabilities.

Ground — An electrical connection between a circuit and the earth. Also refers to a conductor connected to earth. In some instances, can refer to a central metallic point designated as having zero potential.

Ground Conductor — A conductor in a transmission cable or line that is grounded.

Ground Loop — A completed circuit between shielded pairs of a multiple pair created by random contact between shields. An undesirable circuit condition in which interference is created by ground currents when grounds are connected at more than one point.

Ground Potential — The potential of the earth. A circuit, terminal, or chassis is said to be at ground potential when it is used as a reference point for other potentials in the system.

H — Symbolic designation for magnetic field intensity. Abbreviation for henrys (unit of inductance).

Halar® — A Solvay Solexis trademark for thermoplastic fluoropolymer material with excellent chemical resistance, electrical properties, thermal characteristics and impact resistance.

Haloarrest® I — Haloarrest I is a non-halogenated flame retarded thermoplastic polyolefin with excellent low smoke and flame properties. It is used as a jacket over the XLPE insulated singles (non-XHHW), and the entire construction meets the UL 13 and 1277 specifications as a non-halogenated PLTC/TC cable. Haloarrest I meets the European Specifications on acid gas evolution and % Halogen content. This jacket can also be used with XHHW conductors for wet ratings.

Harness — A flat cable or group of cables, usually with many breakouts with the wire ends prepared for termination or terminated to connectors and ready to install.

HDSL — High bit-rate Digital Subscriber Line.

Headroom — The amount by which a cable ACR exceeds the specified requirements. The TIA/EIA-568B standard specifies a minimum of 10 dB of ACR for Category 5e certification at 100 MHz.

Heavy Metal Free (HMF) — General term for a product or material that does not contain restricted heavy metals, such as Lead or Cadmium. See also Restriction of Hazardous Substances.

Henry — Unit of inductance (H) that will produce a voltage drop of one volt when the current changes at the rate of one ampere per second.

Hertz (Hz) — Unit of frequency equal to one cycle per second.

Heterogeneous Insulation — A cable insulating system composed of two or more layers of different insulating materials.

HF — High Frequency. International Telecommunication Union designation for the 3 to 30 MHz band of frequencies.

HFC — Hybrid Fiber/Coaxial.

High Frequency — International Telecommunication Union designation for the 3 to 30 MHz band of frequencies.

Homogeneous Insulation — A complete cable insulation structure whose components cannot be identified as layers of different materials.

Hook-Up Wire — Single conductor wire with various types of insulation.

Horizontal Cable — Cable used between the workstation outlet and the telecommunications closet. Limited to 90 meters maximum per TIA/EIA-568B.1.

HSCDS — High-Speed Cable Data Service.

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HTML — Hypertext Markup Language.

HTTP — Hypertext Transfer Protocol.

Hum — Term used to describe noise in a audio, video or other system that comes from 60 Hz power or its harmonic(s). So named for the low-frequency humming sound produced in audio systems. Usually hum is the result of undesired coupling from a 60 Hz source or of inadequate filtering of the DC output of an AC input power supply.

Hypalon® — A DuPont trade name for a synthetic rubber (chlorosulfonated polyethylene) used as insulating and jacketing material for wire and cable.

I — Symbol used to designate current.

I/O Interconnection — Input/Output interface to the outside world.

I^2R — Formula for power in watts, where I = current in amperes, R = resistance in ohms.

ICEA — Insulated Cable Engineers Association.

IDC — Insulation Displacement Connector. Type of connector where contact is made to the cable conductor(s) by cutting through the individual conductor's insulation. The conductor does not need to have its insulation removed prior to connection. Flat cable often uses IDCs to simultaneously connect all conductors.

IDSL — ISDN Digital Subscriber Line.

IEEE — Institute of Electrical and Electronic Engineers.

IETF — Internet Engineering Task Force.

IF — Intermediate Frequency.

IFB — Interrupted Feedback (Foldback). A monitoring scheme often used in television where the feed of program audio to an on-air person can be interrupted with directions, cues or other information. Usually integrated into the intercom system.

IGMP — Internet Group Management Protocol.

Impedance — The total opposition that a circuit offers to the flow of alternating current or any other varying current at a particular frequency.

Impedance Match — A condition whereby the impedance of a particular circuit, cable or component is the same as the impedance of the circuit, cable or device to which it is connected.

Impedance Matching Stub — A section of transmission line or pair of conductors cut to match the impedance of a load. Also called matching stub.

Impedance Matching Transformer — A transformer designed to match the impedance of one circuit to that of another.

Impedance, Characteristic — In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or the impedance which makes a transmission cable seem infinitely long, when connected across the cable's output terminals.

Impedance, High — Generally, the area of 25,000 ohms or higher.

Impedance, Low — Generally, the area of 1 through 600 ohms.

Index Edge — Reference Edge.

Inductance — The property of wire which stores electrical current in a magnetic field around the wire. By coiling wire, the effect can be intensified. It is measured in Henrys.

Induction — The phenomenon of a voltage, magnetic field or electrostatic charge being produced in an object from the source of such fields.

Induction Heating — Heating a conducting material by placing it in a rapidly changing magnetic field. The changing field induces electric currents in the material and losses account for the resultant heat.

Inductive Crosstalk — Crosstalk resulting from the coupling of the electromagnetic field of one conductor upon another.

Injection Laser Diode — Sometimes called the semiconductor diode. A laser in which the lasing occurs at the junction of N-type and P-type semiconductor materials.

INMS — Integrated Network Management System.

Input — A signal (or power) which is applied to a piece of electric apparatus or the terminals on the apparatus to which a signal or power is applied.

Insertion Loss — A measure of the attenuation of a cable and/or component(s) by determining the output of a system before and after the device is inserted into the system.

Insulation — A material having good dielectric properties which is used to separate close electrical components, such as cable conductors and circuit components.

Insulation Displacement Connector (IDC) — A mass termination connector for flat cable with contacts that displace the conductor insulation to complete termination.

Insulation Stress — The molecule separation pressure caused by a potential difference across an insulator. The practical stress on insulation is expressed in volts per mil.

Interface — The region where two systems or a major and a minor system meet and interact with each other.

Interference — Disturbances of an electrical or electromagnetic nature that introduce undesirable responses into other electronic equipment.

Intermediate Frequency — A frequency to which a signal is converted for ease of handling. Receives its name from the fact that it is an intermediate step between the initial and final conversion or detection stages.

Ionization — The formation of ions. Ions are produced when polar compounds are dissolved in a solvent and when a liquid, gas, or solid is caused to lose or gain electrons due to the passage of an electric current.

Ionization Voltage — The potential at which a material ionizes. The potential at which an atom gives up an electron.

IP — Internet Protocol.

IPCDN — IP Over Cable Data Network working group of the IETF.

IR — Insulation Resistance.

IR Drop — The designation of a voltage drop in terms of current and resistance. (See also *Voltage Drop*.)

IRC — Inter Relay Chat.

IRS — Ignition Radiation Suppression.

Integrated Services Digital Network — An alternative to telephone modems that allows digital transmission over ordinary telephone copper wire and other media. Home and business users can get highly graphic Web pages more quickly through ISDN adapters than through dial-up connections.

ISO — International Standards Organization.

Isolation — The ability of a circuit or component to reject interference, usually expressed in dB.

ISP — Internet Service Provider.

ITFS — Instructional Television Fixed Service.

ITU — International Telecommunications Union.

Jacket — Pertaining to wire and cable, the outer protective covering that may also provide additional insulation.

Jumper — A short length of conductor or flat cable used to make a connection between terminals or around a break in a circuit or between circuit boards.

kB — Kilobyte.

keV — 1000 electron volts.

Kilo — One thousand.

KPSI — Tensile strength in thousands of pounds per square inch.

kV — Kilovolt (1000 volts).

kVA — Kilo Volt-ampere. One thousand volt-amperes (VA). (See also *VA*.)

kW — Kilowatt.

L — Symbol for inductance.

Laminated Cable — Insulated or uninsulated wires which are encapsulated by two sheets of laminate material to maintain a predetermined pitch.

LAN — Local Area Network. A data network connecting any number of users, intended to serve a small area. A group of computers and associated devices that shares a common communications line and typically shares the resources of a single processor or server within a small geographic area.

Laser — A coherent source of light with a narrow beam and a narrow spectral bandwidth (about 2nm).

Lay — The length measured along the axis of a wire or cable required for a single strand (in stranded wire) or conductor (in cable) to make one complete turn about the axis of the conductor or cable. In a twisted pair cable, the lay length is the distance it takes for the two wires to completely twist around each other.

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Glossary of Terms

Lay Direction — The direction of the progressing spiral twist in a cable while looking along the axis of the cable away from the observer. The lay direction can be either left or right.

Lead Dress — The placement or routing of wiring and component leads in an electrical circuit.

Lead Free — Unless otherwise specified, a homogeneous material containing less than 300ppm of lead (Pb) which is not intentionally added. See also *Heavy Metal Free.*

Lead-in — The cable that provides the path for RF energy between the antenna and the receiver or transmitter.

Leakage — The undesirable passage of current over the surface of or through an insulator.

LEC — Local Exchange Carrier.

Level — A measure of the difference between a quantity or value and an established reference.

LF — Low frequency. International Telecommunication Union designation for the 30 to 300 kHz band of frequencies.

Light Emitting Diode (LED Source) — A semiconductor device that emits incoherent light formed by the P-N junction. Light intensity is roughly proportional to electrical current flow.

Limpness — The ability of a cable to lay flat or conform to a surface as with microphone cables. The ability of a cable to bend in a short radius.

Line Drop — A voltage loss occurring between any two points in a power or transmission line. Such loss or drop is due to the resistance, reactance or leakage of the line. (See also *Voltage Drop* and *IR Drop.*)

Line Equalizer — A reactance (inductance and/or capacitance) connected in series with a transmission line to alter the frequency-response characteristics of the line.

Line Level — Refers to the output voltage level of a piece of electronic equipment. Usually expressed in decibels (e.g. 0 dBV).

Line Voltage — The value of the potential existing on a supply or power line.

LMDS — Local Multipoint Distribution Service

Load — A device that consumes power from a source and uses that power to perform a function.

Loaded Line — A transmission line that has lumped elements (inductance or capacitance) added at uniformly spaced intervals. Loading is used to provide a given set of characteristics to a transmission line.

Loading — A transmission line that has lumped elements (inductance or capacitance) added at uniformly spaced intervals. Loading is used to provide a given set of characteristics to a transmission line.

Local Area Network — A data network connecting any number of users, intended to serve a small area. (See also *LAN.*)

Long-wire Antenna — An antenna conductor length in excess of one-half of a wavelength.

Loss — Energy or signal lost without accomplishing useful work.

Lossy — Having high losses resulting in efficiency.

Low Frequency — International Telecommunication Union designation for the 30 to 300 kHz band of frequencies.

Luminance Signal — The portion of the composite video signal that represents the brightness or the black and white information.

m — Prefix for milli or one-thousandth.

M — Mutual inductance. The abbreviation for mega or 1 million. And also indicates 1000 (one thousand) feet in the wire industry. Lower case m is for milli or one-thousandth. (See also *m.*)

M′ — Notation representing 1000 feet.

mA — milliampere (one-thousandth of an ampere).

MAC — Media Access Control (layer of OSI Reference Model).

MAN — Metropolitan Area Network.

Manufacturing Automation Protocol — A manufacturing automation protocol based on IEEE 802.4 standards.

MAP — Manufacturing Automation Protocol.

Margin — Distance between reference edge of cable and nearest edge of first conductor or center of first conductor.

Mass-Termination — The process of simultaneously terminating all conductors in a single operation.

Matrix IDC™ — Belden's patent pending 10GX® Module IDC design which reduces the ANEXT between pairs of adjacent modules by 15dB, enabling transmission rates of 625 MHz and data rates of 10Gb/s.

Matte Finish PVC — A special formulation of PVC which very closely looks and feels like rubber.

MATV — Abbreviation for Master Antenna Television.

MB — Megabyte.

Mbps — Mega bits per second. The number of bits, in millions, transmitted per second.

MCNS — Multimedia Cable Network System Partners Ltd.

MDS — Multipoint Distribution System.

Mega — Prefix meaning million.

Megahertz (MHz) — Unit of frequency equal to one million Hertz.

Metropolitan Area Network (MAN) — A data network intended to serve the area of a city or an area of similar size.

mfd — Microfarad (one-millionth of a farad). Modern abbreviation is µF (lower case Greek *mu* followed by F).

Mho — The unit of conductance equal to the reciprocal of the unit of resistance (ohm).

MHz — Megahertz. (See also *Megahertz.*)

Micro — Prefix meaning one-millionth.

Microfarad — One-millionth of a farad (µf, µfd, mf and mfd are common abbreviations).

Micromicrofarad — One-millionth of a microfarad (µµf, µµfd, mmf, mmfd are common abbreviations). Modern usage is picofarad (pF).

Micron — Millionth of a meter. (µ is a common abbreviation).

Microphonics — Noise caused by mechanical excitation of a system component. In a single-conductor microphone cable, for example, microphonics can be caused by the shield rubbing against the dielectric as the cable is flexed.

Mil — A unit of length equal to one thousandth of an inch (.001).

Milli — Prefix meaning one-thousandth.

Mitigation — Strategies or methods to improve Alien Crosstalk performance in the field for 10G transmission over installed-base cabling.

Mode — A single electromagnetic wave traveling in an optical fiber.

Modem — Modulator-Demodulator. Device that converts signals in one form to another form compatible with another kind of equipment.

Modulation — Altering the characteristics of a carrier wave to convey information. Modulation techniques include amplitude frequency, phase, plus many other forms of on-off digital coding.

Molded Cable — Cable assemblies with molded connectors on one or both ends.

Mono Filament — A single strand filament as opposed to a braided or twisted filament.

MSO — Multiple System Operator. Cable TV term referring to companies that operate multiple cable TV systems in numerous cities.

MTP — Simple Mail Transfer Protocol.

Multi-Conductor Cable — Cable with more than one conductor.

Multiplex — A technique for putting two or more signals into a single channel.

Mutual Capacitance — Effective capacitance between two conductors when the effects of the other conductors and shield, if present, are removed.

mV — Millivolt (one-thousandth of a volt).

mW — Milliwatt (one-thousandth of a watt).

Mylar® — DuPont trademark for polyethylene terephtalate (polyester) film.

N — Type of coaxial connector named after its inventor, Paul Neil of Bell Labs. Also the symbol for Newton.

Nano — One-billionth.

Nanometer (nm) — One billionth of a meter.

Nanosecond — One billionth of a second.

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Glossary of Terms

NAP — Network Access Point.

National Electrical Code (NEC) — A publication of the National Fire Protection Association (NFPA) which outlines requirements for electrical wiring and building construction.

NBR — Butadiene-acrylonitrile copolymer rubber, a material with good oil and chemical resistance.

NEC — National Electrical Code.

NEMA — National Electrical Manufacturers Association.

Neoprene — A synthetic rubber with good resistance to oil, chemical, and flame. Also called polychloroprene.

Network — A method of data communications between computers.

NEXT — Near-end Crosstalk. Crosstalk induced on the pairs, measured at the end near the transmitter. Usually expressed in decibels (dB).

NFPA — National Fire Protection Association.

Nibble — One half byte (4 bits).

NOC — Network Operations Center.

Noise — In a cable or circuit, any extraneous signal which tends to interfere with the signal normally present in or passing through the system.

NOMEX® — DuPont trademark for a temperature-resistant, flame-retardant nylon.

Non-Paired Cable — Cable with two or more cabled conductors that are not in a paired configuration.

Non-Plenum — A description for a cable that does not meet the requirements of NFPA 262 (UL 910) CMP flame test. Such a cable cannot be installed in an area that is used for air return (plenum).

Notch — The removal of the web section between conductors of a flat cable to aid in stripping, slitting and termination.

NTSC — National Television System Committee. Organization that formulated standards for the current U.S. color television system. This system is used in most countries of the Americas and in other parts of the world. It was designed to be compatible with the existing monochrome TV sets, so that they would not become obsolete. Color televisions would also be able to receive monochrome transmissions. NTSC uses a 3.579545 MHz subcarrier whose phase varies with the instantaneous hue of the televised color and whose amplitude varies with the instantaneous saturation of the color. NTSC employs 525 lines per frame, 29.97 frames per second and 59.94 fields per second.

Numerical Aperture (NA) — A measure of the angular acceptance for a fiber. It is approximately the sine of the half-angle of the acceptance cone.

Nylon — An abrasion-resistant thermoplastic with good chemical resistance.

OFDM — Orthogonal Frequency Division Multiplexing.

OFHC — Abbreviation for oxygen-free, high conductivity copper. It has 99.95% minimum copper content and an average annealed conductivity of 101% compared to standard copper.

Ohm — The unit of electrical resistance. The value of resistance through which a potential difference of one volt will maintain a current of one ampere.

Ohm's Law — Stated E=IR, I=E/R or R=E/I. The current I in a circuit is directly proportional to the voltage E, and inversely proportional to the resistance R.

Optical Waveguide Fiber — A transparent filament of high refractive index core and low refractive index cladding that transmits light.

OSI — Open System Interconnect (Model for networking protocols).

OSS — Operations Support Systems.

Output — The useful power or signal delivered by a circuit or device.

Ozone — Extremely reactive form of oxygen, normally occurring around electrical discharges and present in the atmosphere in small but active quantities. In sufficient concentrations it can break down certain rubber insulations under tension (such as a bent cable).

Paired Cable — Cable with conductors cabled in groups of two.

PAL — Phase Alternation Line. PAL is a European color TV system featuring 625 lines per frame, 25 frames and 50 fields per second. Used mainly in Europe, China, Malaysia, Australia, New Zealand, the Middle East, and parts of Africa. PAL-M is a Brazilian color TV system with 525 lines per frame, 30 frames and 60 fields per second.

Parallel Circuit — A circuit in which the identical voltage is presented to all components, with current dividing among the components according to the resistances or the impedances of the components.

Parallel Digital — Digital information that is transmitted in parallel form. The digits are sent on separate conductors rather than sequentially on one transmission line (serial). Often used informally to refer to parallel digital television signals.

PASP — Polyethylene Aluminum Steel Polyethylene. Provides additional lightning and gopher protection.

Patchcord — A flexible piece of cable terminated at both ends with plugs. Used for interconnecting circuits on a patchboard, in a wiring closet or at the work area.

PC — Personal Computer.

PE — Polyethylene.

Peak — The maximum instantaneous value of a varying current or voltage.

Peel Strength — The force necessary to separate two adjacent conductors of a bonded or laminated flat cable.

Periodicity — The uniformly spaced cable impedance variations that result in addition of the reflections of a signal. The distance between them is the half wavelength of the most affected frequency. Multiples of that frequency are also affected. Even very slight variations, which appear over and over in a construction or installation, can have major effects on signal integrity because of periodicity.

Permanent Link — The horizontal cable including the workstation outlet and patch panel in the telecommunications closet plus two meters of cable at each end for testing. Limited to a maximum of 90 meters in TIA/EIA-568B.1.

PFA — Perfluoroalkoxy.

Phase — An angular relationship between waves.

Phase Shift — A change in the phase relationship between two alternating quantities.

Photodetector (Receiver) — Converts light energy to electrical energy. The silicon photo diode is most commonly used for relatively fast speeds and good sensitivity in the .75 micron to .95 micron wavelength region. Avalanche photodiodes (APD) combine the detection of optical signals with internal amplification of photo-current. Internal gain is realized through avalanche multiplication of carriers in the junction region. The advantage in using an APD is its higher signal-to-noise ratio, especially at high bit rates.

PHY — Physical (layer of OSI Reference Model). (See also *Physical Layer.*)

Physical Layer — The actual portion of a network that is used to physically connect computers of a network and over which the data is transmitted — the cable.

PIC — Plastic Insulated Conductor. Provides strong insulation.

Pickup — Any device which is capable of transforming a measurable quantity of intelligence (such as sound) into relative electrical signals (e.g. a microphone).

Pico — One-trillionth.

Picofarad — One trillionth of a farad. A micromicrofarad. Abbreviated pF in modern usage or mmF in earlier usage.

Pin-diode — A photodetector used to convert optical signals to electrical signals in a receiver. (See also *Photodetector.*)

Pitch — Nominal distance from center-to-center of adjacent conductors within a cable. When conductors are flat, pitch is usually measured from the reference edge of a conductor to the reference edge of the adjacent conductor. Spacing.

Planar Cable — Also referred to as flat and/or ribbon cable. Any cable with two or more parallel conductors in the same plane encapsulated by insulating material.

Plastic — High polymeric substances, including both natural and synthetic products that are capable of flowing under heat and pressure, called thermoplastics. Unlike rubber and other thermoset compounds, plastics can be remelted and reused.

Plasticizer — A chemical added to plastics to make them softer and more flexible.

Plenum — A compartment or chamber to which one or more air ducts are connected and that forms part of the air distribution system. A description for a cable that passes the NFPA 262 (UL-910) CMP flame test requirements.

Plug — A male housing with male or female contacts.

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Glossary of Terms

Point-to-Point Wiring — Wiring that consists of continuous conductors terminated at each end to circuit destination.

Polarization — The orientation of a flat cable or a rectangular connector (e.g. for gray flat cable), the colored edge indicating the number one conductor.

Polybutadiene — A type of synthetic rubber often blended with other synthetic rubbers to improve their properties.

Polyethylene (PE) — A thermoplastic material having excellent electrical properties. Low dielectric constant, a stable dielectric constant over all frequencies, very high insulation resistance. In terms of flexibility, polyethylene can be rated stiff to very hard, depending on molecular weight and density — low density being the most flexible and the high-density, high-molecular weight formulation being very hard. Moisture resistance is rated excellent.

Polymer — A substance made of many repeating chemical units or molecules. The term polymer is often used in place of plastic, rubber or elastomer.

Polyolefin — Any of the polymers and copolymers of the ethylene family of hydrocarbons, such as polyethylene and polypropylene.

Polypropylene (PP) — A thermoplastic similar to polyethylene but stiffer and having a higher softening point (temperature). This material is primarily used as an insulation material. Typically, it is harder than polyethylene. This makes it suitable for thin wall insulations. The dielectric constant is 2.25 for solid and 1.55 for cellular designs.

Polyurethane (PUR) — Broad class of polymers noted for good abrasion and solvent resistance. Can be in solid or cellular form. This thermoplastic material is used primarily as a cable jacket material. It has excellent oxidation, oil, and ozone resistance. Some formulations also have good flame resistance. It is a hard material with excellent abrasion resistance. It has outstanding memory properties, making it an ideal jacket material for retractile cords.

Polyvinyl Chloride (PVC) — A general purpose thermoplastic used for wire and cable insulation and jackets.

Portable Cordage — Cable with two or more twisted conductors for flexible applications. Also called flexible cord.

POTS — Plain Old Telephone Service. Sometimes used in discussions of new telephone technologies in which the question of whether and how existing voice transmission for ordinary telephone communication can be accommodated. For example, DSL and ISDN provide part of their channels for POTS, while using most of their bandwidth for digital data transmission.

Potting — Sealing by filling with a substance to exclude moisture.

Power — The amount of work per unit of time. Usually expressed in watts. Power equals the product of voltage and current (P = V x I).

Power Loss — The difference between the total power delivered to a circuit, cable or device and the power delivered by that device to a load.

Power Ratio — The ratio of power appearing at the load to the input power.

PP — Polypropylene.

PPP — Point-to-Point Protocol.

Precision Video — Video coaxial cables having very tight electrical tolerances in impedance, velocity of propagation, attenuation and return loss. Used in high quality applications such as live broadcast in network studios and pre- or post-production facilities.

Premise Cabling — Refers to the entire cabling system used for voice, data, video and power on a user's premise. For Local Area Networks, the cabling of choice includes unshielded twisted pairs (UTP), fiber optic and coaxial cables. Of these, the UTP market is the largest, with greatest demand for cables with four pairs that meet certain standards of performance, such as Category 5 and Category 5e.

PRI — Primary Rate Interface ISDN.

Prop 65 — See *California Proposition 65*.

Propagation Delay — Time required for a signal to pass from the input to the output of a device.

PSAELFEXT — Power sum alien equal level far-end crosstalk is a computation of the unwanted signal coupling between pairs in cabling in close proximity from multiple transmit signals at the near-end into another pair measured at the far-end, and relative to the received signal level.

PSAFEXT — Power sum alien far-end crosstalk loss is a computation of the unwanted signal coupling between pairs in cabling in close proximity from multiple transmit signals at the near-end into another pair measured at the far-end.

PSANEXT — Power sum alien near-end crosstalk loss is a computation of the unwanted signal coupling between pairs in cabling in close proximity from multiple transmit signals at the near-end into a pair measured at the near-end.

Pseudo Random NRZ — A wave form of binary signals that may be used in a computer system. It is called NRZ, Non-Return to Zero, because the voltage does not return to zero after each bit.

PSTN — Public Switched Telephone Network.

Pulse — A current or voltage which changes abruptly from one value to another and back to the original value in a finite length of time. Used to describe one particular variation in a series of wave motions.

Put-up — Packaging of finished wire or cable.

PVC — Polyvinyl Chloride. (See also *Polyvinyl Chloride*.)

PVDF — Polyvinylidene Fluoride.

QAM — Quandrature Amplitude Modulation.

QOS — Quality of Service.

QPSK — Quaternary Phase Shift Keying or Quadrature PSK.

Quad — A four conductor cable. Also called star quad.

R — Symbol for resistance.

Radio Frequency (RF) — Radio Frequency. Includes frequencies from a few kilohertz to several gigahertz. Used to transmit information from point to point over the airwaves or cable.

RAM — Random Access Memory.

Rated Temperature — The maximum temperature at which an electric component can operate for extended periods without loss of its basic properties.

Rated Voltage — The maximum voltage at which an electric component can operate for extended periods without undue degradation or safety hazard.

RDC — Regional Data Center.

Reactance — A measure of the combined effects of capacitance and inductance on an alternating current. The amount of such opposition varies with the frequency of the current. The reactance of a capacitor decreases with an increase in frequency; the opposite occurs with an inductance.

Receiver — A unit that converts an RF signal to another type of signal (e.g. radio, television). Also refers to an electronic package that converts light energy to electrical energy in a fiber optic system. (See also *Photodetector*.)

Receptacle — A female housing with male or female contacts.

Reference Edge — Edge of cable or conductor from which measurements are made, such as in flat cable. Sometimes indicated by a thread, identification stripe or printing. Conductors are usually identified by their sequential position from the reference edge, with number one conductor closest to this edge.

Reflection — The change in direction (or return) of waves striking a surface. For example, electromagnetic energy reflections can occur at an impedance mismatch or variation in a transmission line, causing standing waves.

Reflection Loss — The part of a signal which is lost due to reflection of power at a line discontinuity.

Refractive Index — The ratio of light velocity in a vacuum to its velocity in the transmitting medium.

Registration — Alignment of one object with relation to another. In flat cables it involves aligning conductors with contacts or solder pads. Also called register.

Repeater — A receiver and transmitter combination used to regenerate an attenuated signal.

Resistance — In DC circuits, the opposition a material offers to current flow, measured in ohms. In AC circuits, resistance is the real component of impedance, and may be higher than the value measured at DC.

Resonance — An AC circuit condition in which inductive and capacitive reactances interact to cause a minimum or maximum circuit impedance.

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Glossary of Terms

Restricted Flame Retardants — Refers to the EU directive 2003/11/EC (6-FEB-2003), which bans the use of Penta- and Octa- BDE compounds. Belden is currently using these substances in certain CPE jacket materials only, and plans to phase out usage by January 2006. Contact Belden Customer Service or visit www.belden.com for product specific details.

Restriction of Hazardous Substances (RoHS) — Refers to the EU directive 2002/95/EC (27-JAN-2003) which bans the use of certain substances as of July 2006. The following items are of primary concern in cables, namely: Asbestos and its compounds, Cadmium and its compounds, Chromium VI and its compounds, Lead and its compounds, Mercury and its compounds, and Polybrominated Biphenyls (pbbs) and their ethers/oxides (PBDEs, PBBEs). Contact Belden Customer Service or visit www.belden.com for product specific details.

Retractile Cord — A cord having specially treated insulation or jacket so that it will retract like a spring. Retractability may be added to all or part of a cord's length.

Return Loss — Measure of signal reflections from a cable or device with a fixed, standard reference impedance on the measuring equipment. Expressed in decibels (dB).

RF — Radio Frequency.

RFI — Radio Frequency Interference.

RFP — Request for Proposals.

RG/U — RG is the abbreviation for radio guide, a military designation for a coaxial cable, and U stands for universal.

RGB — Abbreviation for the three parts of color video signal: red, green and blue. Also refers to multi-coaxial cables carrying these signals.

Ribbon Cable — A flat cable made with parallel round conductors in the same plane. Also referred to as planar and/or flat cable. Any cable with two or more parallel conductors in the same plane encapsulated by insulating material.

Ringing Out — The process of locating or identifying specific conductor paths by means of passing a current through selected conductors.

Riser — The system of pathways that are provided to run riser cables from one floor to another.

RJ-45 — Modular telecommunications connector.

RL — Return Loss.

RMS — Root-mean-square.

Rope Strand — A conductor composed of groups of twisted strands.

Round Conductor Flat Cable (RCFC) — A cable made with parallel round conductors in the same plane.

Routing — The path followed by a cable or conductor.

RSVP — Resource Reservation Protocol.

Hypalon is a DuPont trademark.

RTP — Real-Time Transport Protocol.

Rubber (Wire Insulation) — A general term used to describe wire insulations made of thermosetting elastomers, such as natural or synthetic rubbers, neoprene, Hypalon® butyl rubber and others.

RUS 1755.900 (*aka* PE90) — A specification for fiber optic cables currently in high demand by the telecommunications industry. Only a handful of U.S. manufacturers can produce fiber optic cables to this specification. Belden is one of them.

S-CDMA — Synchronous Code Division Multiple Access.

S-HDSL — Single-pair High bit-rate Digital Subscriber Line.

SAE — Society of Automotive Engineers.

SBR — A copolymer of styrene and butadiene. Also GR-S or Buna-S. Most commonly used type of synthetic rubber.

ScTP — Screened Twisted Pair. Premise network cable with an overall foil shield.

SDI — Serial Digital Interface.

SDSL — Symmetric Digital Subscriber Line.

SEALPIC — Aluminum Shield. Sealed Aluminum.

Self-extinguishing — The characteristic of a material that extinguishes its own flame after the igniting flame is removed.

Self-Support — Undulated core with aluminum, polyethylene and a support strand. For aerial use.

Semiconductor — In wire industry terminology, a material possessing electrical conductivity that falls somewhere between that of conductors and insulators. Usually made by adding carbon particles to an insulator. Not the same as semiconductor materials such as silicon, germanium, etc. Used for making transistors and diodes.

Semi-Solid Dielectric — A coaxial design in which a monofilament of plastic holds the center conductor in place in a hollow plastic tube allowing the remainder of the dielectric to be air. Typical velocities of up to 84% can be achieved in this design.

Separator — Pertaining to wire and cable, a layer of insulating material such as textile, paper, Mylar®, etc., which is placed between a conductor and its dielectric, between a cable jacket and the components it covers, or between various components of a multiple-conductor cable. It can be utilized to improve stripping qualities, flexibility or can offer additional mechanical or electrical protection to the components it separates.

Serial Digital — Digital information that is transmitted in serial form. SDI informally refers to serial digital television signals that conform to the SMPTE 259M standard.

Serial Digital Interface — Informally refers to serial digital television signals that conform to the SMPTE 259M standard.

Series Circuit — A circuit in which the components are arranged end to end to form a single path for current.

Serve Shield — A metallic shield consisting of several strands of wire, helically wound and laid parallel around a cable core in only one direction, as opposed to the two directions with interleaving of a braid shield.

Shannon Capacity — A theoretical calculation of the maximum available data-rate for a channel.

Sheath — Pertaining to wire and cable, the outer protective covering, also called jacket, that may also provide additional insulation.

Shield — A tape, serve or braid (usually copper, aluminum or other conductive material) placed around or between electric circuits or cables or their components, to prevent signal leakage or interference.

Shield Coverage — The optical percentage of a cable actually covered by shielding material.

Shield Effectiveness — The relative ability of a shield to screen out undesirable interference or prevent signal leakage out of the cable. Frequently confused with the term shield coverage.

Shield Percentage — The percentage of physical area of a circuit or cable actually covered by shielding material.

Shielded Armored — Types of Shield: Aluminum, Aluminum/Steel and Copper. Cables that require some sort of shield.

Signal — Any visible or audible indication which can convey information. Also, the information conveyed through a communication system.

Signal Conductor — A conductor in a transmission cable or line that carries electrical signals.

Signal to Noise Ratio — Ratio of desired signal to undesired signal (noise) that is often expressed in decibels. Commonly used interchangeably with Attenuation Crosstalk Ratio (ACR) — the difference between attenuation and crosstalk, measured in decibels (dB), at a given frequency. Important characteristic in networking transmission to assure that signal sent down a twisted pair is stronger at the receiving end of the cable than are any interference signals imposed on that same pair by crosstalk from other pairs.

Silicone — A material made from silicon and oxygen. Can be in thermosetting elastomer or liquid form. The thermosetting elastomer form is noted for high heat resistance. This is a very soft thermoset insulation. It has excellent electrical properties plus ozone resistance, low moisture absorption, weather resistance, and radiation resistance. It typically has low mechanical strength and poor scuff resistance.

Single-mode Fiber — An optical fiber wave guide in which only one mode will propagate. The fiber has a very small core diameter of approximately 8 micro meters. It permits signal transmission at extremely high bandwidths and is generally used with laser diodes.

Single-ended — Unbalanced, such as grounding one side of a circuit or transmission line.

Sinusoidal — Varying in proportion to the sine of an angle or time function. Ordinary alternating current is sinusoidal.

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Glossary of Terms

SIS — Single conductor having synthetic thermosetting insulation of heat-resistant, moisture-resistant, flame-retarding grade. Also made with chemically cross-linked polyethylene insulation. Used for switched wiring only.

Skew Rays — A ray that does not intersect the fiber axis. Generally, a light ray that enters the fiber core at a very high angle.

Skin Effect — The tendency of alternating current to travel only on the surface of a conductor as its frequency increases.

SMA — Subminiature A connector commonly used in VHF, UHF, RF and microwave applications.

SMB — Subminiature B connector snap-mount connector.

SMC — Subminiature C connector.

Snake Cable — A name given to individually shielded or individually shielded and jacketed, multi-pair audio cables. Used in the connection of multi-channel line level audio equipment.

SNMP — Simple Network Management Protocol.

SNR — Signal to Noise Ratio.

SONET — Synchronous Optical Network.

Source — The device from which a signal is marked into a cable. The device (usually LED or laser) used to convert an electrical information-carrying signal into a corresponding optical signal for transmission by an optical wave guide.

Spacing — The distance between the centers of two adjacent conductors. Pitch.

Span — The distance between the center of the first conductor and the center of the last conductor in a flat cable.

Spectral Bandwidth — The difference between wavelengths at which the radiant intensity of illumination is half its peak intensity.

Spectrum — Frequencies that exist in a continuous range and have a common characteristic. A spectrum may be inclusive of many spectrums (e.g. the electromagnetic radiation spectrum includes the light spectrum, radio spectrum, infrared spectrum, etc.).

Speed of Light (c) — Approximately 2.998 x 10^8 meters per second.

SpiralFlex™ — Belden's patent-pending cable design for the 10GX® Cable which increases randomization and pair separation, enabling transmission rates of 625 MHz and data-rates of 10Gb/s.

Splitter — A device that sends the signal from one source to two or more receiving devices by allocating a portion of the signal to each receiver (e.g. cable TV splitter). A device that divides a high bandwidth signal into two or more lower bandwidth signals, each carrying a selected frequency range. Users connected to a DSL line, for example, may have a splitter installed at their home or business to divide the incoming signal into low frequencies to send to their phone and high frequencies for data to the computer.

SRL — Structural Return Loss.

Stalpeth (DUCTPIC) — Aluminum steel bonded to the polyethylene jacket. Helps minimize jacket damage.

Standing Wave — The stationary pattern of waves produced by two waves of the same frequency traveling in opposite directions on the same transmission line. The existence of voltage and current maxima and minima along a transmission line is a result of reflected energy from an impedance mismatch.

Standing Wave Ratio (SWR) — A ratio of the maximum amplitude to the minimum amplitude of a standing wave stated in current or voltage amplitudes. (See also *Standing Wave.*)

Star Quad — Term given to 4-conductor microphone cables where the conductors are spiraled together, which, when connected in an x configuration, greatly increases common mode noise rejection.

Static Charge — An electrical charge that is bound to an object. An unmoving electrical charge.

Stay Cord — A component of a cable, usually of high tensile strength, used to anchor the cable ends at their points of termination and keep any pull on the cable from being transferred to the electrical conductors.

Step Insulated — Process of applying insulation in two layers. Typically used in shielded networking cables such that the outer layer of insulation can be removed and remaining conductor and insulation can be terminated in a RJ-45 type connector.

Step-index Fiber — An optical fiber in which the core is of a uniform refractive index with a sharp decrease in the index of refraction at the core/cladding interface.

STP — Shielded Twisted Pair(s).

Strain Gage — A device for determining the amount of strain (change in dimensions) when a stress is applied.

Strand — A single uninsulated wire.

Stranded Conductor — A conductor composed of several strands or groups of uninsulated wires.

Strip — To remove insulation from a cable or wire.

Stripping Groove — The controlled thinning of the lamination between two conductors in a flat cable to allow easy hand separation. Tear feature.

Structural Return Loss — Magnitude of the internal cable reflections, measured in decibels (dB), relative to the actual cable impedance, not the system impedance. Measure of signal reflections caused by the structure of the cable without the additional reflections from any impedance mismatch between the cable and the measuring equipment. Measure of internal cable reflections using a reference impedance in the measuring equipment that is adjusted to the nominal or average impedance of the cable. (See also *Return Loss.*)

Surge — A temporary and relatively large increase in the voltage or current in an electric circuit or cable. Also called transient.

S-Video — Transmission method for video in which the two parts of the signal, the chrominance and luminance, are sent on separate transmission lines to provide better picture quality.

Sweep Test — Testing a characteristic of a cable or device across a range of frequencies. In cable, it usually implies return loss or structural return loss. (See also *Return Loss* or *Structural Return Loss.*)

TCP/IP — Transmission Control Protocol/ Internet Protocol.

TDMA — Time Division Multiple Access.

Tear Feature — The controlled thinning of the lamination between two conductors in a flat cable to allow easy hand separation.

Teflon® — DuPont Company trademark for fluorocarbon resins.

Tefzel® — DuPont Company trademark for a ETFE. Fluorocopolymer thermoplastic material which has excellent electrical properties, heat resistance, chemical resistance, toughness, radiation resistance and flame resistance.

Temperature Rating — The maximum temperature at which the insulating material or cable may be used in continuous operation without change in its basic properties.

Tensile Strength — The pull stress required to break a bare wire.

TFE — Tetrafluoroethylene. A thermoplastic material with good electrical insulating properties and chemical and heat resistance.

Thermal Rating — The temperature range in which a material will perform its function without undue degradation.

Thermoplastic — A material which will soften, flow or distort appreciably when subjected to sufficient heat and pressure. Examples are polyvinyl chloride and polyethylene.

Thermoset — A material which will not soften, flow or distort appreciably when subjected to heat and pressure. Vulcanizable. Examples are rubber and neoprene.

TIA — Telecommunications Industry Association. Body which authored the TIA/EIA-568-B Commercial Building Telecommunications Wiring Standard in conjunction with EIA.

TIA/EIA-568-B — Commercial Building Telecommunications Wiring Standard defines a generic telecommunications wiring system for commercial buildings that will support a multi-product, multi-vendor environment. It also provides direction for the design of telecommunications products for commercial enterprises.

Tinsel — A type of electrical conductor composed of a number of tiny threads, each thread having a fine, flat ribbon of copper or other metal closely spiraled about it. Used for small size cables requiring limpness and extra-long flex life.

Topcoated Wire — Conductor produced by applying a layer of tin over a stranded bare copper conductor holding the strands together allowing easier soldering and preventing the fraying of strands.

TP-PMD — Twisted Pair-Physical Medium Dependent.

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Glossary of Terms

Transducer — A device for converting one form of energy to another, such as mechanical energy to electrical energy.

Transfer Impedance — For a specified cable length, transfer impedance relates to a current on one surface of a shield to the voltage drop generated by this current on the opposite surface of the shield. Transfer impedance is used to determine shield effectiveness against both ingress and egress of interfering signals. Cable shields are normally designed to reduce the transfer of interference — hence, shields with lower transfer impedance are more effective than shields with higher transfer impedance.

Transmission Line — An arrangement of two or more conductors, such as a coaxial cable or a waveguide used to transfer signal energy from one location to another.

Transmission Line Cable — Two or more conductors placed within a dielectric material in such a way as to control the electrical characteristics.

Transmitter — Equipment that generates RF or electrical signals for transmission through the air or space or over a transmissions line. Also refers to the electronic package that converts electrical energy to light energy in a fiber optic system.

Triad Cable — Cable with three twisted conductors.

Triaxial Cable — A cable construction having a conductor and two isolated braid shields, all insulated from each other. A coaxial cable with a second braid applied over an inner jacket and an outer jacket applied over the outer braid. Commonly used in television camera systems.

Triboelectric Noise — Noise generated in a shielded cable due to variations in capacitance between the shield and conductors as the cable is flexed.

Trunk Cable — In a CATV system, the transmission cable from the head end (signal pickup) to the trunk amplifier. Also called a feeder cable.

Turn-key — A contractual arrangement in which one party designs and installs a system and turns over the keys to another party who will operate the system.

TVRO — TV Receive Only.

Twin-lead — A transmission line having two parallel conductors separated by insulating material. Line impedance is determined by the diameter and spacing of the conductors and the insulating material and is usually 300 ohms for television receiving antennas.

Twinax Cable — Cable with two twisted conductors with established electrical properties (one pair = two conductors sharing a common axis = twinax).

Twisted Pair — Two lengths of insulated conductors twisted together. The traditional method for connecting home and many business computers to the telephone company. Gets its name because two insulated copper wires are twisted together, both of which are needed for each connection. In commercial environments, performance of data transmission can be improved by adding a composite tape to the wire. This is known as shielded twisted pair.

Two-pair Premise Wiring — Refers to the two pairs of voice grade (low bandwidth) twisted pair wire installed in most homes since the 1950s. The extra pair makes it possible for you to add another line when you need it.

UHF — Ultra High Frequency. International Telecommunications Union designation for the 300 to 3000 MHz band of frequencies.

UL — Underwriters Laboratories. A nonprofit organization which tests and verifies construction and performance of electronic parts and equipment, including wire and cable.

UM — Unsoldered Mechanical Protection. Additional steel and polyethylene over inner polyethylene jacket. Provides additional mechanical protection.

Unbalanced Line — A transmission line in which voltages on the two conductors are unequal with respect to ground. A coaxial cable is a common type of unbalanced line.

Unilay — A conductor with more than one layer of helically laid wires with the direction of lay and length of lay the same for all layers.

UTP — Unshielded Twisted Pair(s).

V — Volt. (See also *Volt.*)

VA — Volt-ampere. Measure of apparent power in a reactive circuit found by multiplying the voltage by the current.

VC/MTM — Variable Constellation/ Multi-Tone Modulation.

VDSL — Very high bit rate Digital Subscriber Line.

Velocity of Propagation (VP) — The transmission speed of electrical energy in a length of cable compared to speed of light in free space. Usually expressed as a percentage.

VHF — Very High Frequency. International Telecommunications Union designation for the 30 to 300 MHz band of frequencies.

VHS — Abbreviation for Video Home System.

Video — Pertaining to picture information in a television system.

VLF — Very Low Frequency. International Telecommunications Union designation for the 3 to 30 kHz band of frequencies.

Volt — A unit of electromotive force.

Voltage — Electrical potential of electromotive force expressed in volts.

Voltage Drop — The voltage developed across a component or conductor by the current flow through the resistance or impedance of the component or conductor.

Voltage Rating — The highest voltage that may be continuously applied to a cable construction in conformance with standards or specifications.

Voltage Standing Wave Ratio — Ratio of maximum voltage of the standing wave to the minimum voltage of the standing wave. (See also *Standing Wave Ratio.*)

VSWR — Voltage Standing Wave Ratio.

VW-1 — A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test, formerly designed FR-1.

W — Symbol for watt or wattage.

Wall Thickness — The thickness of an insulation or jacket.

WAN — Wide Area Network.

Watt — A unit of electrical power.

Wave Form — A graphical representation of a varying quantity. Usually, time is represented on the horizontal axis, and the current or voltage value is represented on the vertical axis.

Wavelength — The distance between positive peaks of a signal. As the frequency increases, and waves get closer together, the wavelength decreases.

WCS — Wireless Communications Service.

Wire — A conductor, either bare or insulated.

Wireless — Really a misnomer. Belden makes a variety of cables needed to build the transmitting infrastructure required to support wireless devices. Wireless is a technology that allows a device (phone, pager or satellite dish) to be unconnected from the transmission point of a voice, video or data signal. The transmission infrastructure required to support such wireless devices is a wired platform of transmission towers and stations that communicate point to point and to telephone central offices.

X — Symbol for reactance.

X-Bar™ — The X-Bar is a plastic device that is used for installing 10GX® Cable onto a 10GX Module, optimizing the termination process and practically eliminating performance variation due to termination variances.

XLPE — Crosslinked polyethylene is a thermoset and is crosslinked by radiation, thermally, or by moisture. XLPE offers a wide range of operating temperatures, excellent deformation, abrasion, and flame resistance. XLPE can be formulated with halogenated or non-halogenated flame retardant packages. Some grades are also rated XHHW-2 which offers excellent wet electrical properties.

XLR — A multi-pin audio connector (typically 3 pins) used in microphone, line level and snake cable audio connections.

XPE-PVC — Expanded Polyethylene-Polyvinyl Chloride. Fire retardant.

Z — Symbol for impedance.

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Index
Part Numbers

How To Use This Index: All part numbers beginning with a number are listed in numerical sequence; any alpha characters within the part number are ignored for sequencing purposes. All part numbers beginning with an alpha character follow behind the numerical listings in an alpha/numeric sequence. Also use the e-catalog on **www.belden.com** for part number searches.

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Part Numbers

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How To Use This Index: All part numbers beginning with a number are listed in numerical sequence; any alpha characters within the part number are ignored for sequencing purposes. All part numbers beginning with an alpha character follow behind the numerical listings in an alpha/numeric sequence. Also use the e-catalog on **www.belden.com** for part number searches.

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NXC-RPSL-PGANNN-JBSFBN-N-01-5	16.7
NXC-RPSL-PGANNN-LCSFBN-N-01.5	16.7
NXC-RPSL-PGANNN-SCSFBN-N-01.5	16.7
NXC-RPSL-PGANNN-STSFBN-N-01.5	16.7

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BELDEN
SENDING ALL THE RIGHT SIGNALS



Belden® Customer Care

Belden has maintained its leadership role in the industry primarily because of the emphasis we place on customers' needs. By staying close to the customer, the various markets we serve and the applicable industry standards, Belden has always been able to meet or exceed the expectations of all.

For All Your Signal Transmission Needs...

Be Sure To Specify Belden

Customer-Centric Design™ (CCD) is the phrase we've coined for our product development process, which encompasses so much more than the act of designing a product for a customer. It really means constant care – taking care to stay at the top of our craft in every way imaginable. From the time that a customer's need is established to the end of the product or system's life cycle, Belden provides ongoing support at all times.



Customer-Centric Design Offers Tangible Rewards

When our customers are teamed with our skilled engineering and sales staff it's a win-win opportunity for everyone. This combined effort typically provides our customers with:

- Expertise in technical problem solving
- Innovative designs to match specific applications
- Enhanced performance
- Cost-effective solutions

Raising the Bar on Customer Satisfaction

As we go forward, we recognize that our customers' needs will continue to evolve. We're committed to evolving with them by taking our solutions provider status a step further.

We are extending our Customer-Centric design capabilities to all aspects of signal transmission technology - applying our service support and technical know-how to this decidedly broader sphere.

Evidence of our expanded scope is apparent by our addition of new copper and optical fiber cabling products and systems, end-to-end structured cabling systems, enclosures and racks, Power over Ethernet (PoE) equipment, cable management accessories – and we are not through.

So, whether you need a standard signal transmission product, a modification of an existing product, or a custom designed product and system for your application, just ask.

Belden is Fully Committed to Your Needs.

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