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

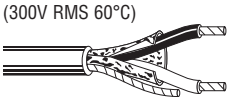
Line Level Analog Audio Cable

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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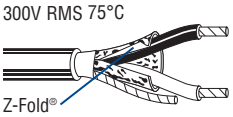
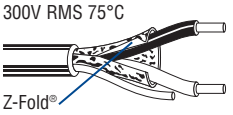
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • 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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Single-Pair Cables

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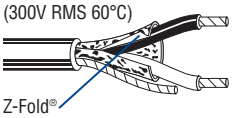
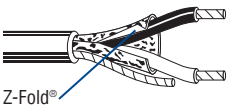
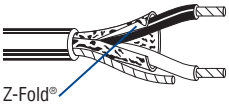
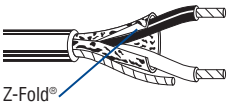
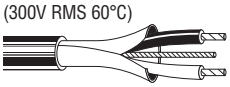
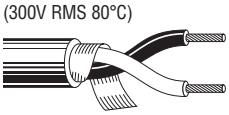
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (7x30) TC Conductors • 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
															For Plenum versions of 8761, see 88761, 87761 or 82761.			
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

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

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

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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Double-Pair Cables

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					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®																		

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*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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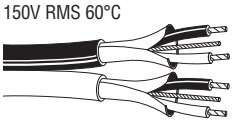
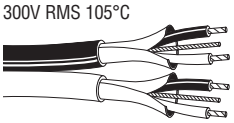
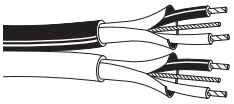
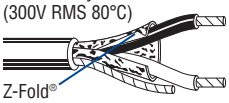
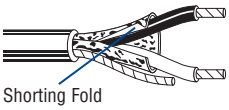
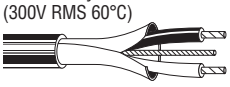
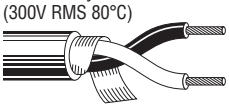
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
22 AWG Stranded (19x34) TC Conductors • Dual Twisted Pairs • Overall Beldfoil® Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
PVC Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & 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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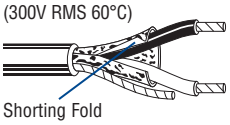
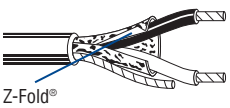
Line Level Analog Audio Cable

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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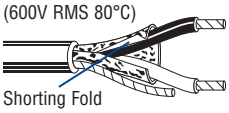
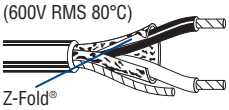
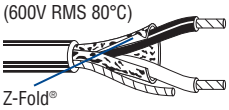
Line Level Analog Audio Cable

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	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.

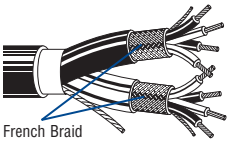
Color Code: Blue, White, Blue w/White stripe, White w/Blue stripe.

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.

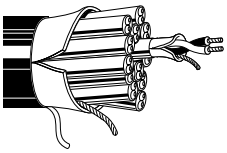
Color Code: Red, Black.

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.

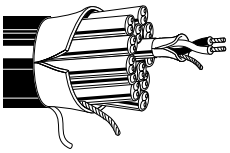
Color Code: Red, Black.

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.



Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm
Flexible, CM Rated Twisted Pairs NEC: CM (CEC: CM)							
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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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

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.

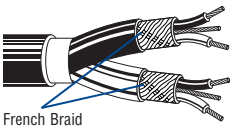
Color Code: Red, Black.

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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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.

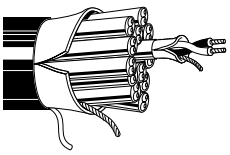
Color Code: Red, Black.

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.

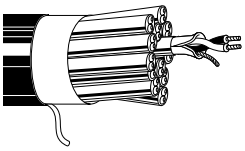
Color Code: Red, Black.

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.

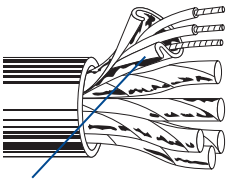
Color Code: See Chart 3 (in Technical Information Section)

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.

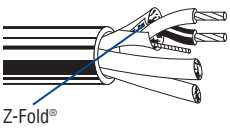
Color Code: See Chart 3 (in Technical Information Section)

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

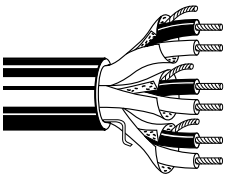
22 AWG stranded (7x30) bare copper conductor. FEP insulation. Twisted pairs individual Beldfoil® shield (100% Coverage) with drain wire. Multiple pairs cable together. Overall Gray fluorocopolymer jacket and rip cord. Sequential footage marking every two feet.

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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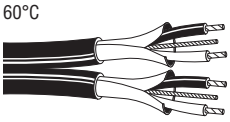
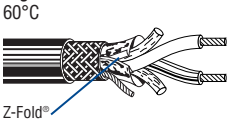
AES/EBU Digital Audio Cable

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◆ 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 40.8	23.7Ω/M′ 77.7Ω/km	18.9Ω/M′ 62.0Ω/km	.177	4.57	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.																		
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▲ U-1000 1000▲	152.4 U-304.8 304.8	12.0 26.0 24.0	5.5 11.8 10.9	23.7Ω/M′ 77.7Ω/km	5.0Ω/M′ 16.4Ω/km	.211	5.36	110	76%	12	39	26	85
 French Braid																		
▲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 U-1000 1000	152.4 U-304.8 304.8	6.0 14.0 12.0	2.7 6.4 5.5	23.7Ω/M′ 77.7Ω/km	18.9Ω/M′ 62.0Ω/km	.165	4.19	110	78%	12	39	26	85
																		
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 U-1000 1000	152.4 U-304.8 304.8	16.5 35.0 37.0	7.5 15.9 16.8	23.7Ω/M′ 77.7Ω/km	18.9Ω/M′ 62.0Ω/km	.180 x .360	4.57 x 9.14	110	76%	12	39	26	85
																		
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	250 500 U-1000 1000	76.2 152.4 U-304.8 304.8	8.0 14.5 30.0 32.0	3.6 6.6 13.6 14.5	17.8Ω/M′ 48.5Ω/km	4.6Ω/M′ 15.2Ω/km	.234	5.94	110	76%	13	43	26	85
 Z-Fold®																		

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.

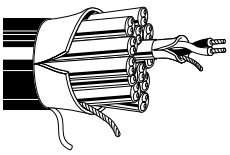
Color Code: Black, Red.

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.

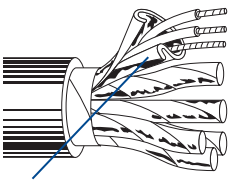
Color Code: See Chart 3 (in Technical Information Section)

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.

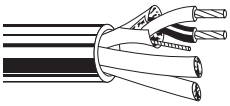
Color Code: See Chart 5 (in Technical Information Section)

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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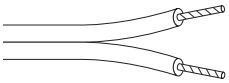
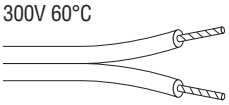
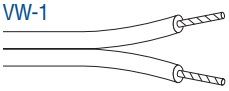
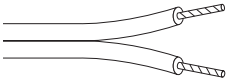
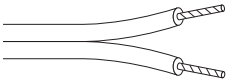
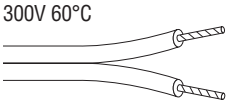
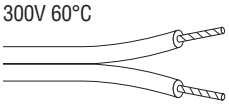
Speaker Wire and Cable

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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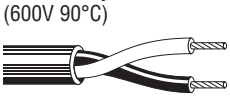
Speaker Wire and Cable

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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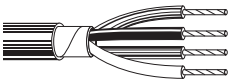
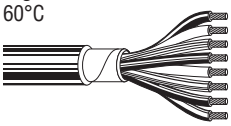
Speaker Wire and Cable

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  Compatible with Neutrik Speakon® Connectors.	**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
High-Flex 60°C  Compatible with Neutrik Speakon® Connectors.	**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
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  Jacket sequentially marked at 2 ft. intervals.	**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
														For Plenum version of 5T00UP, see 6T00UP.
10 AWG Stranded (65x28) Bare Copper Conductors • Cabled • Rip Cord														
Plenum • Flamarrest® Insulation • Natural Flamarrest Jacket														
High-Flex 150V 75°C  Jacket sequentially marked at 2 ft. intervals.	**6T00UP**	NEC: CL2P Audio Use Only	2	Black, White	1000	304.8	85.0	38.6	.011	.28	.015	.38	.308	7.82

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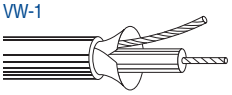
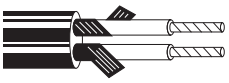
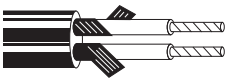
Special Application
Audio, Communication and Instrumentation Cable

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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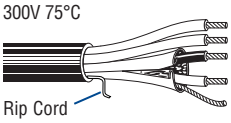
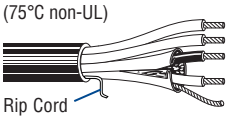
Special Application
Audio, Communication and Instrumentation Cable
Multimedia Control Cables

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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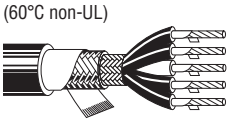
Special Application
Audio, Communication and Instrumentation Cable
Microphone/Musical Instrument Cables

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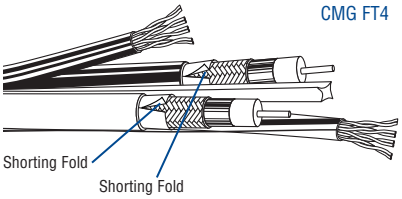
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Composite Data, Audio, Video, Security and Control Cable

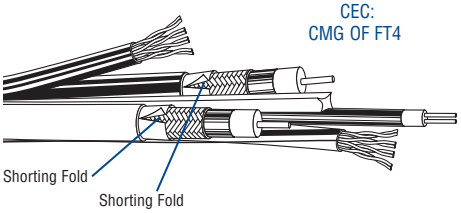
Banana Peel® Jacketless Cables
Category 5e Bonded-Pairs

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

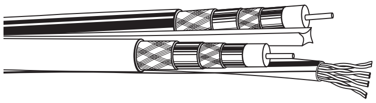
Composite Data, Audio, Video, Security and Control Cable

Banana Peel® Jacketless Cables

Category 5e

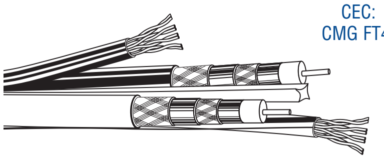
Composite • (1) Cat 5e 4-Pair UTP 24 AWG • **(2) Series 6 Coax** w/Duobond® IV* Quad Shield

Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **PVC Jackets • No Overall Jacket**

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
	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
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.									(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

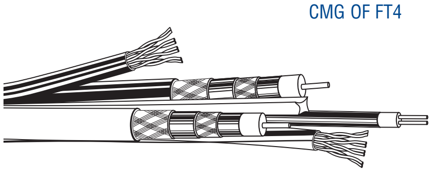
Composite • (2) Cat 5e 4-Pair UTP 24 AWG • **(2) Series 6 Coax** w/Duobond IV* Quad Shield

Polyolefin Insulation (Pairs) • **Gas-injected FPE Insulation** (Coax) • **F-R PVC Jackets • No Overall Jacket**

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
	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
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.									(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

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**

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
	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
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.									(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

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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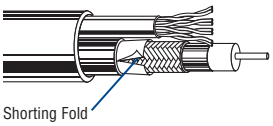
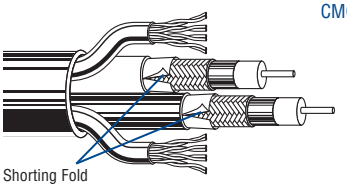
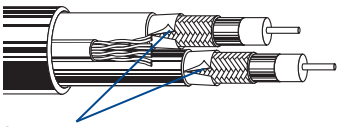
Composite Data, Audio, Video, Security and Control Cable

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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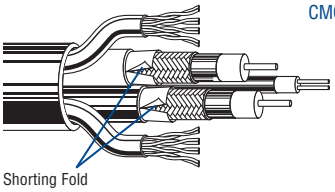
Composite Data, Audio, Video, Security and Control Cable

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



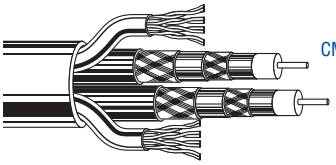
Shorting Fold

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

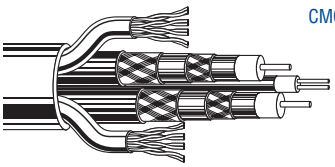


Third party verified to TIA/EIA-568-B.2, Category 5e
Coax sweep tested to 3.0 GHz and jacket sequentially marked.
Coax shield effectiveness 110dB @ 1GHz.

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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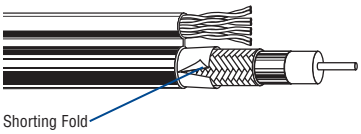
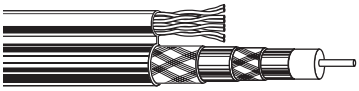
Composite Data, Audio, Video, Security and Control Cable

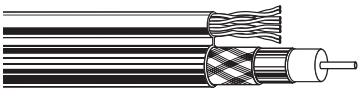
Siamese Cables

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	**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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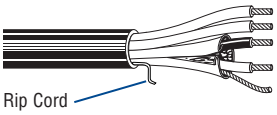
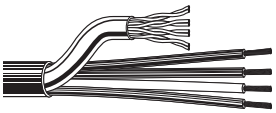
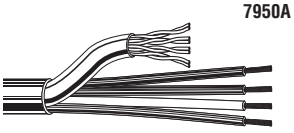
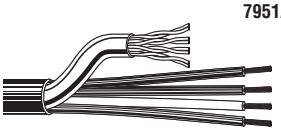
Composite Data, Audio, Video, Security and Control Cable

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 (19x 29)														
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 (19x 29)														
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 (19x 30)														
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 (19x 26)														
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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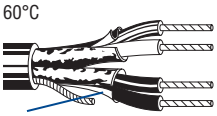
Alarm, Security and Speaker Cable / Shielded Audio Cable

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:	2	Black,	C-500	C-152.4	3.5	1.6	.006	.15	.015	.38	.114	2.90
		CM		Red	U-500	U-152.4	5.0	2.3						
		CEC:			C-1000	C-304.8	7.0	3.2						
		CM FT1			U-1000	U-304.8	9.0	4.1						
Jacket sequentially marked at 2 ft. intervals.														
300V 75°C	**5502UG**	NEC:	4	Black,	C-500	C-152.4	6.5	3.0	.006	.15	.015	.38	.131	3.33
		CM		Red,	U-500 *	U-152.4	7.5	3.4						
		CEC:		White,	C-1000	C-304.8	13.0	5.9						
		CM FT1		Green	U-1000	U-304.8	14.0	6.4						
*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:	2	Black,	C-500	C-152.4	7.5	3.4	.006	.15	.015	.38	.148	3.76
		CM		Red	U-500	U-152.4	8.5	3.9						
		CEC:			U-1000	U-304.8	16.0	7.3						
		CM FT1												
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:	1	Black,	500♦	152.4	8.0	3.6	23.7Ω/M′	18.9Ω/M′	.177	4.50	110	76%	12	39	26	85
		CMG		Red	U-1000	U-304.8	17.0	7.7	77.7Ω/km	62.0Ω/km								
		CEC:			1000	304.8	16.0	7.3										
		CMG FT4			5000♦	1524.0	90.0	40.9										
♦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:	2	Red/Black,	100	30.5	2.3	1.0	14.7Ω/M′	15.0Ω/M′	.160	4.06	45	66%	35	115	62	203
		CM		Green/White	U-500	U-152.4	10.5	4.8	48.5Ω/km	49.2Ω/km								
Z-Fold®		CEC:			500	152.4	10.0	4.5										
		CM			U-1000	U-304.8	20.0	9.1										
					1000	304.8	20.0	9.1										
					1640	499.9	32.8	14.9										
					U-2000	U-609.6	38.0	17.2										
					2000	609.6	40.0	18.2										
					3280	999.7	65.6	29.8										
					5000	1524.0	95.0	43.2										
					10000	3048.0	200.0	90.9										

Pairs Individually Shielded with Beldfoil® (100% Coverage)

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

For cross-connect use with 1803F (et al.) Digital Audio Snake Cables, see page 19.28

For Plenum version of 1800B, see 1801B.

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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