

Line Level Analog Audio Cable

Single-Pair Cables



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 CEC: CMG FT4	1	Black, Red	U-1000 1000 ▲	U-304.8 304.8	11.0 11.0	5.0 5.0	.008 .008	.20 .20	.020 .020	.51 .51	.123 .123	3.12 3.12	31	102	58	190
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*1000 ft. put-up available in Gray only.

Jacket and shield are bonded so both can be removed with automatic stripping equipment.

For cross-connect use with 1408R (et al.) Snake Cables, see page 19.18.

Polyolefin Insulation • Black Matte PVC Jacket

High-Flex 300V RMS 60°C	1508A	NEC: CM CEC: CM	1	Black, Red	500 1000	152.4 304.8	6.5 11.0	2.9 5.0	.008 .008	.20 .20	.024 .024	.61 .61	.131 .131	3.33 3.33	31	102	58	190
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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 CEC: CM	1	Black, Clear	100 U-500 500 U-1000 1000 2000	30.5 U-152.4 152.4 U-304.8 304.8 609.6	2.3 7.5 7.0 14.0 14.0 28.0	1.0 3.4 3.2 6.4 6.4 12.7	.016 .016 .016 .016 .016 .016	.41 .41 .41 .41 .41 .41	.025 .025 .025 .025 .025 .025	.64 .64 .64 .64 .64 .64	.168 .168 .168 .168 .168 .168	4.27 4.27 4.27 4.27 4.27 4.27	22	72	42	138
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For Plenum versions of 8641, see 88641 or 82641.

Plenum • FEP Insulation • Red FEP Jacket

300V RMS 200°C, Non-conduit	88641	NEC: CMP CEC: CMP FT6	1	Black, Red	100 500 † 1000 †	30.5 152.4 304.8	2.4 6.0 9.0	1.1 2.7 4.1	.006 .006 .006	.15 .15 .15	.014 .014 .014	.36 .36 .36	.106 .106 .106	2.69 2.69 2.69	31	102	59	194
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Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS 60°C, Non-conduit	82641	NEC: CMP CEC: CMP FT6	1	Black, Red	U-1000 †† 1000 ††	U-304.8 304.8	9.0 8.0	4.1 3.6	.006 .006	.15 .15	.014 .014	.36 .36	.106 .106	2.69 2.69	31	102	59	194
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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.

Line Level Analog Audio Cable

Single-Pair Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (7x30) 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	1	Black, Red	U-1000	U-304.8	15.0	6.8	.010	.25	.020	.51	.143	3.63	30	99	54	177
		CEC: CM			1000 ▲	304.8	15.0	6.8										

▲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	1	Black, Red	U-1000	U-304.8	16.0	7.3	.010	.25	.020	.51	.142	3.61	53	174	97	318
		CEC: CM																

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	1	Black, Red	100 ▼	30.5	2.3	1.1	.008	.20	.020	.51	.138	3.51	34	111	67	220
		CEC: CMG FT4			U-500	U-152.4	8.5	3.9										
					500	152.4	8.0	3.6										
					U-1000	U-304.8	16.0	7.3										
					1000	304.8	16.0	7.3										

▼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	1	Black, Red	U-500 *	U-152.4	8.5	3.9	.008	.20	.020	.51	.135	3.43	35	115	67	220
		CEC: CMG FT4			500 *	152.4	8.0	3.6										
					T-1000 *	T-304.8	18.0	8.2										
					U-1000	U-304.8	15.0	6.8										
					5000	1524.0	75.0	34.0										

*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.

For cross-connect use with 1814R (et al.)
Snake Cables, see page 19.21

Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket

LSZH and ABS Type Approved 300V RMS 105°C	9451SB new	NEC: CMG-LS	1	Black, Red	1000	304.8	20.0	9.1	.008	.20	.032	.81	.160	4.06	35	114	67	220
		CEC: CMG-LS FT4 Limited Smoke																

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	1	Black, Red	U-1000	U-304.8	16.0	7.3	.007	.18	.017	.43	.127	3.23	35	115	67	220
		CEC: CMP FT6			5000	1524.0	75.0	34.0										

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	1	Black, Red	U-500 *	U-152.4	7.5	3.4	.007	.18	.018	.46	.118	3.00	40	131	76	249
		CEC: CM			U-1000 *	U-304.8	14.0	6.4										
					1000	304.8	13.0	5.9										

*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.

BELDEN

For more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com**

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

Line Level Analog Audio Cable

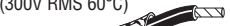
Single-Pair Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (7x30) 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:	1	Black,	U-500	U-152.4	9.0	4.1	.016	.41	.025	.64	.175	4.45	24	79	47	154
		CM		Clear	500	152.4	9.0	4.1										
		CEC:			U-1000	U-304.8	17.0	7.7										
		CM			1000	304.8	18.0	8.2										
					2000	609.6	36.0	16.3										
					5000	1524.0	90.0	40.9										
					10000††	3048.0	170.0	77.3										
For Plenum versions of 8761, see 88761, 87761 or 82761.																		

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

Plenum • FEP Insulation • Red FEP Jacket

300V RMS 200°C 	88761	NEC: CMP CEC: CMP FT6	1	Black, Red	100	30.5	2.7	1.2	.006	.15	.014	.36	.119	3.02	35	115	67	220
					U-500▲	U-152.4	7.5	3.4										
					500†	152.4	7.5	3.4										
					U-1000▲	U-304.8	15.0	6.8										
					1000†	304.8	12.0	5.4										

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

300V RMS 150°C 	87761	NEC: CMP CEC: CMP FT6	1	Black, Red	500†	152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220
					1000†	304.8	11.0	5.0										

Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS 75°C 	82761	NEC: CMP CEC: CMP FT6	1	Black, Red	U-500▲	U-152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220
					U-1000■	U-304.8	14.0	6.4										
					1000†	304.8	11.0	5.0										

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-152.4	11.0	5.0	.016	.41	.026	.66	.180	4.57	24	79	47	154
					U-1000	U-304.8	21.0	9.6										

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	U-152.4	10.5	4.8	.015	.38	.025	.64	.180	4.57	40	131	70	230
					500	152.4	10.0	4.5										
					U-1000	U-304.8	20.0	9.1										
					1000	304.8	20.0	9.1										

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.

Line Level Analog Audio Cable

Double-Pair Cables

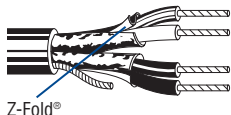


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (7x30) 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	2	Red/Black, Green/White	100	30.5	2.3	1.0	.008	.20	—	—	.160	4.06	35	115	62	203
		CEC: CM			U-500	U-152.4	10.5	4.8										
					500	152.4	10.0	4.5										
					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										

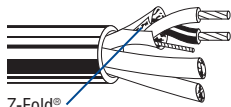


Z-Fold®

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)

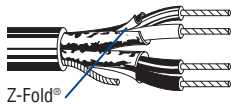
LSZH and ABS Type Approved 300V RMS 60°C	8723SB new	NEC: CMG-LS	2	Red & Black, Green & White	1000	304.8	26.0	11.8	—	—	—	—	.196	4.98	35	115	62	203
		CEC: CMG-LS FT4 Limited Smoke																



Z-Fold®

Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket

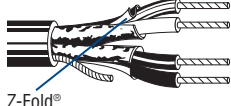
LSZH and ABS Type Approved 300V RMS	8777SB new	NEC: CMG-LS	3	See Chart 3 (Tech Info Section)	1000†	304.8	39.0	17.7	.010	.25	—	—	.273	6.93	30	98	55	180
		CEC: CMG-LS FT4 Limited Smoke																



Z-Fold®

Plenum • FEP Insulation • Red FEP Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

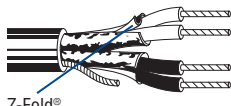
300V RMS 200°C	88723	NEC: CMP	2	Red/Black, Green/White	100†	30.5	3.4	1.5	.006	.15	—	—	.148	3.76	35	115	67	220
		CEC: CMP FT6			500†	152.4	11.0	5.0										
					1000†	304.8	19.0	8.6										



Z-Fold®

Plenum • FEP Insulation • Red Fluorocopolymer Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

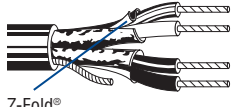
300V RMS 150°C	87723	NEC: CMP	2	Red/Black, Green/White	500†	152.4	11.0	5.0	.006	.15	—	—	.148	3.76	35	115	67	220
		CEC: CMP FT6			1000†	304.8	18.0	8.2										



Z-Fold®

Plenum • FEP Insulation • Natural Flamarrest® Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

300V RMS 75°C	82723	NEC: CMP	2	Red/Black, Green/White	U-500†	U-152.4	10.5	4.8	.006	.15	—	—	.153	3.89	43	141	75	246
		CEC: CMP FT6			U-1000†	U-304.8	20.0	9.1										
					1000†	304.8	19.0	8.6										
					U-2000†	U-609.6	40.0	18.1										



Z-Fold®

FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.

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

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

Line Level Analog Audio Cable

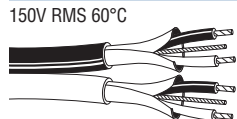
Single- and Double-Pair Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (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
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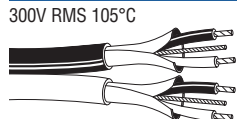


*2000 ft. put-up available in Red & Gray or Red & Green only.

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
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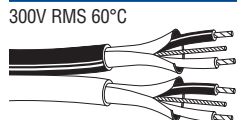


*2000 ft. put-up available in Red & Green only.

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

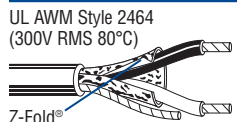
300V RMS 60°C	9451DP new	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	1000	304.8	24.0	10.9	.007 .18	.017 .43	.127 x .269	3.23 x 6.83	35	115	67	220
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The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain 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**

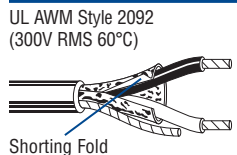
UL AWM Style 2464 (300V RMS 80°C)	9154	NEC: CMG CEC: CMG FT4	1	Black, Red	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	11.5 12.0 22.0 23.0	5.2 5.5 10.0 10.5	.014 .36	.031 .79	.198 5.03	60	197	100	328
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9154 has 22 AWG stranded tinned copper drain wire.

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 2092 (300V RMS 60°C)	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
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Shorting Fold

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
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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
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FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.

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

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

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

Line Level Analog Audio Cable

Single-Pair Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

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:	1	Black, Clear	U-500	U-152.4	18.5	8.4	.019	.48	.030	.76	.230	5.84	30	98	44	144
		CM			U-1000	U-304.8	36.0	16.4										
		CEC: CM																



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)	8760	NEC:	1	Black, Clear	250	76.2	6.8	3.1	.019	.48	.028	.71	.222	5.64	30	98	44	144
		CM			U-500	U-152.4	13.5	6.1										
		CEC:			500	152.4	13.0	5.9										
		CM			U-1000	U-304.8	25.0	11.3										
					1000	304.8	26.0	11.8										
					2000	609.6	50.0	22.7										
					5000	1524.0	135.0	61.4										
					10000	3048.0	260.0	118.2										



Shorting Fold

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	88760	NEC:	1	Black, Red	100	30.5	3.7	1.7	.007	.18	.014	.36	.153	3.89	51	167	97	318
		CMP			U-500†	U-152.4	12.5	5.7										
		CEC:			500†	152.4	11.0	5.0										
		CMP FT6			U-1000†	U-304.8	24.0	10.9										
					1000†	304.8	22.0	10.0										



Z-Fold®

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

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



Z-Fold®

Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS 75°C	82760	NEC:	1	Black, Red	U-500†	U-152.4	12.0	5.5	.007	.18	.014	.36	.150	3.81	51	167	97	318
		CMP			U-1000††	U-304.8	22.0	10.0										
		CEC:			1000†	304.8	21.0	9.5										
		CMP FT6																



Z-Fold®

18 AWG Stranded (7x26) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)

PVC Insulation • Chrome PVC Jacket

300V RMS 60°C	8790	NEC:	1	Red, White	U-500	U-152.4	17.5	7.9	.022	.56	.028	.71	.241	6.12	53	174	92	302
		CMG			500	152.4	17.0	7.7										
		CEC:			U-1000	U-304.8	33.0	15.0										
		CMG FT4			1000	304.8	35.0	15.9										



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%.

Line Level Analog Audio Cable

Single-Pair Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

16 AWG Stranded (19x29) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)

PVC Insulation • Chrome PVC Jacket

300V RMS 60°C	8780	NEC:	1	Black,	500	152.4	23.5	10.7	.023	.58	.030	.76	.280	7.11	57	187	98	322
		CMG		White	U-1000	U-304.8	44.0	20.0										
		CEC:			1000	304.8	46.0	20.9										
		CMG FT4																



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	8719	NEC:	1	Black,	U-500	U-152.4	24.0	10.9	.032	.81	.032	.81	.313	7.95	23	75	44	144
UL AWM Style 20253		CM, CL2		Clear	500	152.4	25.5	11.6										
(600V RMS 80°C)		CEC:			U-1000	U-304.8	47.0	21.3										
		CM			1000	304.8	50.0	22.7										
					2000	609.6	100.0	45.5										
					5000	1524.0	245.0	111.4										
					10000†	3048.0	510.0	231.3										



Shorting Fold

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	8720	NEC:	1	Black,	U-500	U-152.4	34.0	15.4	.032	.81	.035	.89	.355	9.02	24	79	47	154
UL AWM Style 20253		CL2		Clear	500	152.4	35.0	15.9										
(600V RMS 80°C)					1000	304.8	71.0	32.3										
					2000	609.6	138.0	62.7										



Z-Fold®

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	8718	NEC	1	Black,	U-500	U-152.4	47.5	21.6	.037	.94	.040	1.02	.400	10.16	25	82	49	161
UL AWM Style 20253		CL2		Clear	500	152.4	50.5	22.9										
(600V RMS 80°C)					1000	304.8	100.0	45.5										
					2000	609.6	198.0	90.0										



Z-Fold®

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.

Analog Multi-Pair Snake Cable

High-Flex and NEC Rated Cables



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 FlexSnake® 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

Analog Multi-Quad Snake Cable

Super-Flexible, High-Performance Cables
Individually Shielded and Jacketed Quads



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.

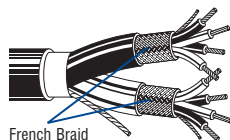
Color Code: Blue, White, Blue w/White stripe, White w/Blue stripe.

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	Quad No.	Jacket Color
1	Brown	8	Gray
2	Red	9	White
3	Orange	10	Black
4	Yellow	11	Beige
5	Green	12	Pink
6	Blue	13-24	Gray (numbered)
7	Purple		

Analog Multi-Pair Snake Cable

CMR Rated Cables

Individually Shielded and Jacketed Twisted Pairs



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

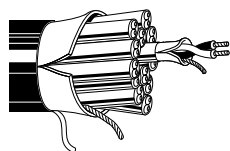
Nominal Velocity of Propagation 66%

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	152.4	36.0	16.3	.346	8.79
		1000	304.8	73.0	33.2		
1409R	6	500	152.4	50.5	22.9	.412	10.46
		1000	304.8	100.0	45.4		
1410R	8	500	152.4	62.0	28.1	.446	11.33
		1000	304.8	122.0	55.3		
1411R	12	500	152.4	91.0	41.3	.555	14.10
		1000	304.8	175.0	79.4		
1412R	16	500	152.4	117.0	53.1	.622	15.80
		1000	304.8	232.0	105.2		
1413R	20	500	152.4	145.0	65.8	.704	17.88
		1000	304.8	293.0	132.9		
1414R	24	500	152.4	182.0	82.6	.801	20.35
		1000	304.8	374.0	169.6		
1415R	26	500	152.4	193.5	87.8	.816	20.73
		1000	304.8	397.0	180.1		
1416R	32	500	152.4	228.5	103.7	.890	22.61
		1000	304.8	465.0	210.9		

Analog Multi-Pair Snake Cable

Flexible, CM Rated Cables

Individually Shielded and Jacketed Twisted Pairs



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

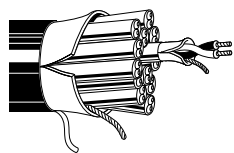
Nominal Velocity of Propagation 66%

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

Analog Multi-Pair Snake Cable

FleXsnake® Super-Flexible, High-Performance Cables
Individually Shielded and Jacketed Twisted Pairs



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.

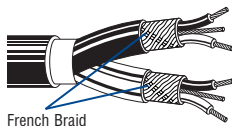
Color Code: Red, Black.

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

FleXsnake 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.

Analog Multi-Pair Snake Cable

CMR Rated Cables

Individually Shielded and Jacketed Twisted Pairs



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

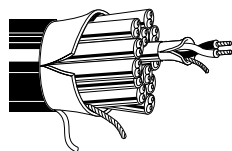
Nominal Velocity of Propagation 66%

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	152.4	30.0	13.6	.330	8.38
		1000	304.8	59.0	26.8		
1815R	4	500	152.4	45.0	20.4	.384	9.74
		1000	304.8	91.0	41.3		
1816R	6	500	152.4	65.0	29.5	.462	11.73
		1000	304.8	131.0	59.6		
1817R	8	500	152.4	80.0	36.3	.503	12.78
		1000	304.8	152.0	68.9		
1818R	12	500	152.4	121.0	54.9	.638	16.21
		1000	304.8	241.0	109.3		
1819R	16	500	152.4	180.0	81.6	.776	19.71
		1000	304.8	364.0	165.0		
1820R	20	500	152.4	216.0	98.0	.865	21.97
		1000	304.8	442.0	200.1		
1821R	24	500	152.4	263.5	119.5	.969	24.61
		1000	304.8	518.0	235.0		
1822R	26	500	152.4	280.5	127.2	.989	25.12
		1000	304.8	552.0	250.4		
1823R	32	500	152.4	335.5	152.2	1.072	27.23
		1000	304.8	692.0	313.9		

Length may vary -10% to +0% from length shown.

Analog Multi-Pair Snake Cable

Flexible, Low-Capacitance Cables

Individually Shielded and Jacketed Twisted Pairs



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.

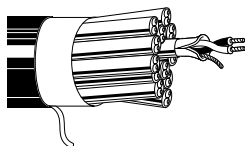
Color Code: Red, Black.

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.

Analog Multi-Pair Snake Cable

CM Rated Cables

Individually Shielded Twisted Pairs



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)

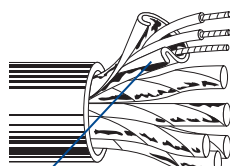
Nominal Impedance	50Ω
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Nominal Velocity of Propagation	66%
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Nominal Capacitance	
Between Conductors	30 pF/Ft. (98 pF/m)
Between Conductor/Shield*	55 pF/Ft. (180 pF/m)

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.

Analog Multi-Pair Snake Cable

CMP Rated (Plenum) Cables

Individually Shielded Twisted Pairs



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)

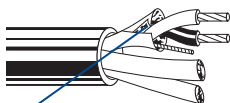
Between Conductors	35 pF/Ft. (115 pF/m)
Between Conductor/Shield*	76 pF/Ft. (249 pF/m)

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.

Analog Multi-Pair Snake Cable

CMP Rated (Plenum) Cables

Individually Shielded Twisted Pairs



Individually Shielded Pairs

NEC: CMP (CEC: CMP FT6)

Product Description

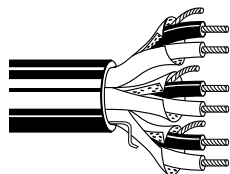
22 AWG stranded (7x30) bare copper conductor. FEP insulation. Twisted pairs individual Beldfoil® shield (100% Coverage) with drain wire. Multiple pairs cable together. Overall Gray fluorocopolymer jacket and rip cord. Sequential footage marking every two feet.

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

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
1790T (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
1790T (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.

AES/EBU Digital Audio Cable

Single- and Double-Pair Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

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 FT41
Black,
White

1000

304.8

10.0

4.5

37.3Ω/M'
122.3Ω/km23.1Ω/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

1800BNEC:
CMG
CEC:
CMG FT41
Black,
Red

500*

152.4

8.0

3.6

23.7Ω/M'

18.9Ω/M'

.177

4.57

110

76%

12

39

26

85



U-1000

U-304.8

17.0

7.7

77.7Ω/km

62.0Ω/km

1000

304.8

16.0

7.3

5000*

1524.0

90.0

40.8

For cross-connect use with 1803F (et al.)
Digital Audio Snake Cables, see page 19.28.*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:
CL2R1
Black,
Red

500*

152.4

12.0

5.5

23.7Ω/M'

5.0Ω/M'

.211

5.36

110

76%

12

39

26

85



French Braid

U-1000

U-304.8

26.0

11.8

77.7Ω/km

16.4Ω/km

1000*

304.8

24.0

10.9

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

24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG TC Drain Wire**Plenum • Foam FEP Teflon® Insulation • Flamarrest® Jacket** (Available in Natural White or Purple)

75°C, Non-conduit

1801BNEC:
CMP
CEC:
CMP FT61
Black,
Red

500

152.4

6.0

2.7

23.7Ω/M'

18.9Ω/M'

.165

4.19

110

78%

12

39

26

85



U-1000

U-304.8

14.0

6.4

77.7Ω/km

62.0Ω/km

1000

304.8

12.0

5.5

24 AWG Stranded (7x32) TC Conductors • Dual Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG TC Drain Wire**Datalene Insulation • Purple PVC Jacket in Zip-Cord Construction**

60°C

1802BNEC:
CMG
CEC:
CMG FT42
Black,
Red

500

152.4

16.5

7.5

23.7Ω/M'

18.9Ω/M'

.180

4.57

110

76%

12

39

26

85



U-1000

U-304.8

35.0

15.9

77.7Ω/km

62.0Ω/km

1000

304.8

37.0

16.8

x

x

.360

9.14

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

22 AWG Stranded (7x30) TC Conductors • Twisted Pair with Fillers • Overall Beldfoil + TC Braid Shield (90% Coverage) • 24 AWG Drain Wire**Datalene Insulation • Black High-Flex Matte PVC Jacket**DMX512 Type
High-Flex
60°C**1696A**

—

1
Blue,
White

250

76.2

8.0

3.6

17.8Ω/M'

4.6Ω/M'

.234

5.94

110

76%

13

43

26

85



U-1000

U-304.8

30.0

13.6

1000

304.8

32.0

14.5

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.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

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

AES/EBU Digital Audio Cable

Multi-Pair Snake Cables

Individually Shielded and Jacketed Pairs



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)

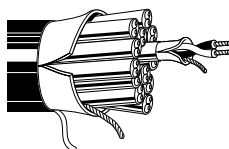
Between Conductors	12.5 pF/Ft. (41 pF/m)
Between Conductor/Shield*	25 pF/Ft. (82 pF/m)

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	152.4	28.0	12.7	.343	8.71
		1000	304.8	56.0	25.5		
7890A	4	100	30.5	8.2	3.7	.399	10.13
		250	76.2	18.0	8.2		
		500	152.4	31.0	14.1		
		1000	304.8	61.0	27.7		
7880A†	8	250	76.2	28.0	12.7	.541	13.74
		500	152.4	57.0	25.9		
		1000	304.8	142.0	64.4		

Fits metal shell 25-pin D-sub connectors.

7892A	12	500	152.4	85.5	37.9	.679	17.25
		1000	304.8	174.0	79.1		
7893A	16	500	152.4	109.5	49.8	.770	19.56
		1000	304.8	240.0	109.1		

Individually Shielded & Jacketed NEC: CMG (CEC: CMG FT4)

24 AWG (7x32) • Flexible

1803F	4	500	152.4	57.5	26.1	.488	12.39
		1000	304.8	107.0	48.6		
1805F	8	500	152.4	106.5	48.3	.661	16.79
		1000	304.8	211.0	95.7		
1806F	12	500	152.4	160.0	72.6	.829	21.06
		1000	304.8	330.0	149.7		
1850F	16	500	152.4	208.0	94.4	.944	23.98
		1000	304.8	407.0	184.6		
1852F	24	500	152.4	321.0	145.6	1.205	30.61
		1000	304.8	644.0	292.1		
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.

AES/EBU Digital Audio Cable

Multi-Pair Snake Cables
Individually Shielded Pairs



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.

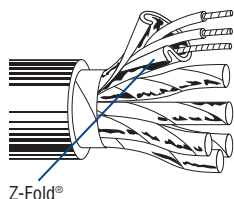
Color Code: See Chart 3 (in Technical Information Section)

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
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9738	27	1000	304.8	334.0	151.8	.797	20.24
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† 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.

AES/EBU Digital Audio CablePlenum-Rated, Multi-Pair Snake Cables
Individually Shielded Pairs**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**

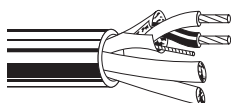
Conductor	23.3Ω/M' (76.4Ω/km)
Shield	14.4Ω/M' (47.2Ω/km)

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.

Speaker Wire and Cable

Overview



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.

Speaker Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables
Parallel Zip Constructions

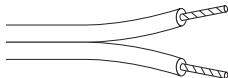


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm

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)	8782	—	2	U-1000 ▲	U-304.8	7.0	3.2	.017	.43	.058	1.47
300V 75°C (Chrome, Brown, White)				1000 ♦	304.8	6.0	2.7			x	x
										.116	2.95



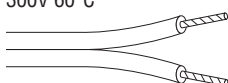
▲U-1000 ft. put-up available in Brown or Chrome only.

♦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

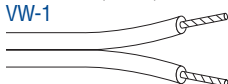
300V 60°C	9712	—	2	1000	304.8	9.0	4.1	.017	.43	.065	1.65
										x	x
										.130	3.30



20 AWG Stranded (7x28) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare

Clear or Chrome PVC Insulation

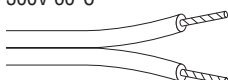
300V 60°C (Clear)	8649	—	2	1000	304.8	12.0	5.5	.018	.46	.073	1.85
300V 75°C (Chrome)										x	x
VW-1										.146	3.71



18 AWG Stranded (16x30) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare

Clear PVC Insulation

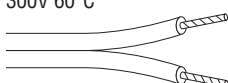
300V 60°C	9708	—	2	U-500	U-152.4	11.0	5.0	.032	.81	.110	2.79
				500	152.4	10.5	4.8			x	x
				U-1000	U-304.8	21.0	9.5			.220	5.59
				1000	304.8	21.0	9.5				



16 AWG Stranded (26x30) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare

Clear PVC Insulation

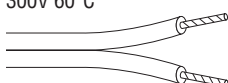
300V 60°C	9716	—	2	U-1000	U-304.8	27.0	12.2	.027	.69	.115	2.92
				1000	304.8	26.0	11.8			x	x
										.230	5.84



14 AWG Stranded (19x27) ETP High-conductivity Copper Conductors • Parallel: (1) Tinned, (1) Bare

Clear PVC Insulation

300V 60°C	9717	—	2	U-1000	U-304.8	42.0	19.1	.035	.89	.146	3.71
				1000	304.8	42.0	19.1			x	x
										.292	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	152.4	33.0	15.0	.045	1.14	.185	4.70
				1000	304.8	66.0	30.0			x	x
										.370	9.40



Speaker Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables
Open Twisted Construction



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
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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
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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
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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
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	9497	—	2	1000	304.8	30.0	13.6	.023	.58	.210	5.33
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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



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
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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



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	30.5	2.4	1.0	.015	.38	.025	.64	.170 4.32
						U-500	U-152.4	7.5	3.4					
						500	152.4	7.5	3.4					
						U-1000	U-304.8	15.0	6.8					
						1000	304.8	15.0	6.8					
						10000	3048.0	150.0	68.2					

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	30.5	2.6	1.2	.013	.33	.025	.64	.180 4.57
						U-500	U-152.4	9.0	4.1					
						500	152.4	9.0	4.1					
						U-1000	U-304.8	17.0	7.7					
						1000	304.8	18.0	8.2					

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	30.5	3.2	1.4	.022	.56	.028	.71	.234 5.94
						U-500	U-152.4	13.5	6.1					
						500	152.4	13.5	6.1					
						U-1000	U-304.8	26.0	11.8					
						1000	304.8	27.0	12.2					

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	U-152.4	20.0	9.1	.023	.58	.032	.81	.274 6.96
						500	152.4	20.0	9.1					
						U-1000	U-304.8	38.0	17.2					
						1000	304.8	40.0	18.2					

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	U-152.4	29.0	13.2	.031	.79	.032	.81	.340 8.64
						500	152.4	30.5	13.9					
						1000	304.8	58.0	26.4					

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	U-152.4	41.5	18.8	.032	.81	.035	.89	.386 9.80
						500	152.4	43.5	19.7					
						1000	304.8	85.0	38.6					

See NEC Guidelines for applicable CL3 voltage ratings (300V RMS).

Speaker Wire and Cable

Low-Capacitance Oxygen-Free, High-Conductivity (OFHC) Speaker Cable
Twisted Jacketed Construction



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
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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
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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
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Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.



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
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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
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Suitable for Direct Burial applications. White and Black jackets are Sunlight-resistant.



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
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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
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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

Speaker Wire and Cable

High-Flex Multi-Conductor Cables

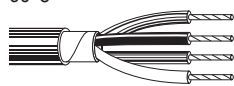
Bi-amp and Tri-amp Speaker Connections



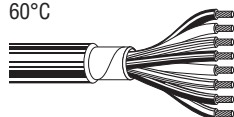
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

14 AWG Stranded (104x34) Bare Copper Conductors • Conductors Cabled with Fillers • Paper Wrap

PVC Insulation • Overall Matte Black PVC Jacket

High-Flex 60°C 	1810A	—	4	Red, Green, White, Black	250	76.2	26.3	11.9	.025	.64	.040	1.02	.390	9.91
					500	152.4	55.5	25.2						
					1000	304.8	114.0	51.7						

Compatible with Neutrik Speakon® Connectors.

High-Flex 60°C 	1811A	—	8	Brown, Red, Orange, Yellow, Green, White, Blue, Black	1000	304.8	205.0	93.0	.025	.64	.040	1.02	.515	13.08

Compatible with Neutrik Speakon® Connectors.

10 AWG Stranded (65x28) Bare High-conductivity ETP Copper Conductors • Highly Stranded for Ultra Flexibility • Rip Cord

High-grade PVC Insulation • PVC Jacket (Available in Gray)

High-Flex 75°C, UL 1581 	5T00UP	NEC: CL2 Audio Use Only	2	Black, White	500	152.4	49.5	22.5	.020	.38	.026	.66	.356	9.04
					1000	304.8	96.0	49.5						

For Plenum version of 5T00UP, see 6T00UP.

Jacket sequentially marked at 2 ft. intervals.

10 AWG Stranded (65x28) Bare Copper Conductors • Cabled • Rip Cord

Plenum • Flamarrest® Insulation • Natural Flamarrest Jacket

High-Flex 150V 75°C 	6T00UP	NEC: CL2P Audio Use Only	2	Black, White	1000	304.8	85.0	38.6	.011	.28	.015	.38	.308	7.82

Jacket sequentially marked at 2 ft. intervals.

Neutrik is a Liechtenstein Corporation trademark.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

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

Special Application Audio, Communication and Instrumentation Cable

Audio Connecting Cables and Dual Channel Audio Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	pF/Ft.*	pF/m*

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
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25 AWG Stranded (7x33) Conductor • (3) TC, (4) TCCS • Tinned Copper Spiral Wrapped Shield (86% Coverage)

FPE Insulation • Chrome PVC Jacket

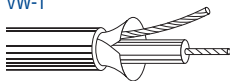
Low-Capacitance 80°C	8421	—	1	—	250	76.2	4.5	2.0	.051	1.30	.023	.58	.180	4.57	16	53
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24 AWG Uni-strand (7x32) Tinned Copper Conductor • Beldfoil Shield (100% Coverage)

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
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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
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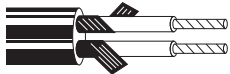


Stereo connecting cable

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
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For use with head sets, stereo and language labs.

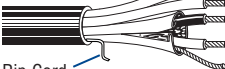
FPE = Foam Polyethylene • TC = Tinned Copper • TCCS = Tinned Copper-covered Steel

*Capacitance between conductors.

Special Application Audio, Communication and Instrumentation Cable

Multimedia Control Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance					
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m		
22 AWG Stranded (7x30) TC Conductors (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		1502R NEC: CMR CEC: CMG FT4	1 STP +2/C	Pair: Blue, White Cond.: Red, Black	500	152.4	20.0	9.1	Data:		.039	.99	.250	6.35	14	46	38	125		
					1000	304.8	44.0	20.0	.025 .64											
												Power:		.013 .33						
															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)	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	.015 .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.

Special Application

Audio, Communication and Instrumentation Cable

Microphone/Musical Instrument Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

Mic • 20 AWG Stranded (19x32) High-conductivity TC Conductors, Cabled • Rayon Braid • TC Braid Shield (84% Coverage)

Polyethylene Insulation • Chrome PVC Jacket

Low-Impedance	8405	—	5	Black,	250	46.2	14.8	6.7	.016	.41	.035	.89	.281	7.14	23	76	40	131
UL AWM Style 2094				Clear,	500	152.4	29.5	13.4										
(300V 60°C)				Green,	1000	304.8	63.0	28.6										
VW-1				Red,														
				Blue														



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	8425	—	5	Blue,	100	30.5	7.8	3.5	.023	.58	.031	.79	.318	8.08	30	98	55	180
600V RMS 90°C				Orange,	250	46.2	17.3	7.8										
(60°C non-UL)				Black,														
				White,														
				Brown														
	8426	—	6	(Same as 8425)	100	30.5	9.0	4.1	.023	.58	.037	.94	.342	8.69	30	98	55	180
				+ Green	250	46.2	21.0	9.5										
	8427	—	7	(Same as 8426)	100	30.5	9.8	4.5	.023	.58	.041	1.04	.355	9.02	30	98	55	180
				+ Red	250	46.2	22.3	10.1										
	8418	—	8	(Same as 8427)	100	30.5	11.0	5.0	.023	.58	.037	.94	.381	9.68	30	98	55	180
				+ Yellow	250	46.2	25.0	11.3										

EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper

*Capacitance between conductors.

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