



Description:

24 AWG stranded (7x32) TC conductors, polypropylene insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	24	7x32	TC - Tinned Copper	.024

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PP - Polypropylene	.040

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.123 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.5	8

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +60°C
Bulk Cable Weight:	9.700 lbs/1000 ft.
Max. Recommended Pulling Tension:	16 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.200 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

1883A Multi-Conductor - Single-Pair Cable

CEC/C(UL) Specification:	CMG
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

52

Nom. Inductance:Inductance (μ H/ft)

.17

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

31

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

58

Nominal Velocity of Propagation:

VP (%)

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

23.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

18.5

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2 Amps per conductor @ 25°C

Notes (Overall)

Notes: Jacket and shield are bonded so both can be removed with automatic stripping equipment. For cross-connect use with 1408R Snake Cables.

Put Ups and Colors:

1883A Multi-Conductor - Single-Pair Cable

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1883A N3UU1000	1,000 FT	12.000 LB	GREEN, MIL		2 #24 PP FS FRPVC
1883A 001U1000	1,000 FT	12.000 LB	BROWN		2 #24 PP FS FRPVC
1883A 002U1000	1,000 FT	12.000 LB	RED		2 #24 PP FS FRPVC
1883A 006U1000	1,000 FT	12.000 LB	BLUE, LIGHT		2 #24 PP FS FRPVC
1883A 007U1000	1,000 FT	12.000 LB	VIOLET		2 #24 PP FS FRPVC
1883A 008U1000	1,000 FT	12.000 LB	GRAY		2 #24 PP FS FRPVC
1883A 0081000	1,000 FT	11.000 LB	GRAY		2 #24 PP FS FRPVC
1883A 009U1000	1,000 FT	12.000 LB	WHITE		2 #24 PP FS FRPVC
1883A 010U1000	1,000 FT	12.000 LB	BLACK		2 #24 PP FS FRPVC

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.

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.

Belden's analog audio cable offering consists of a selection of designs to handle a variety of audio applications. Belden part


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 Z-Fold®	1883A	NEC:	1	Black,	U-1000	U-304.8	11.0	5.0	.008	.20	.020	.51	.123	3.12	31	102	58	190
		CMR		Red	1000 [▲]	304.8	11.0	5.0	For cross-connect use with 1408R (et al.) Snake Cables, see page 19.18.									
		CEC:																
		CMG FT4																


▲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:	1	Black,	500	152.4	6.5	2.9	.008	.20	.024	.61	.131	3.33	31	102	58	190
		CM		Red	1000	304.8	11.0	5.0	For cross-connect use with 1408R (et al.) Snake Cables, see page 19.18.									
		CEC:																
		CM																

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:	1	Black,	100	30.5	2.3	1.0	.016	.41	.025	.64	.168	4.27	22	72	42	138		
		CM		Clear	U-500	U-152.4	7.5	3.4	For Plenum versions of 8641, see 88641 or 82641.											
		CEC:			500	152.4	7.0	3.2												
		CM			U-1000	U-304.8	14.0	6.4												
					1000	304.8	14.0	6.4												
					2000	609.6	28.0	12.7												

Plenum • FEP Insulation • Red FEP Jacket

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

Plenum • FEP Insulation • Natural Flamarrest® Jacket

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