

1800B Multi-Conductor - Single-Pair Cable

For more Information
please call

1-800-Belden1



General Description:

24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Datalene®	FHDPE - Foam High Density Polyethylene	1.7272

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	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 Cable

Overall Nominal Diameter: 4.699 mm

Pair

Pair Color Code Chart:

Number	Color
1	Red & Black

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +60°C
Bulk Cable Weight:	23.811 Kg/Km
Max. Recommended Pulling Tension:	73.395 N
Min. Bend Radius/Minor Axis:	50.800 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR

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EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
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
Other Specification:	AES/EBU

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1801B

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
110

Nom. Inductance:

Inductance (µH/m)
0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
39.372

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
85.306

Nominal Velocity of Propagation:

VP (%)
76

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
77.7597

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
0.384	0.951
0.706	2.330
0.768	2.526
1.024	3.084
1.411	3.609
1.536	3.609
2.048	4.265
2.822	4.593
3.072	4.593
4.096	4.922
5.645	5.578
6.144	5.906
8.192	6.562

METRIC MEASUREMENT VERSION

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11.290	7.218
12.288	7.546
24.576	10.171

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
2.75 Amps per conductor @ 25°C

Notes (Overall)

Notes: For cross-connect use with 1803F (et al.) Digital Audio Snake Cables. The jacket and shield are bonded so both can be removed with automatic stripping equipment.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1800B T5XU1000	1,000 FT	17.000 LB	GRAY T5X		#24 FHDPE FS PR PVC
1800B T5X1000	1,000 FT	18.000 LB	GRAY T5X	C	#24 FHDPE FS PR PVC
1800B T5X500	500 FT	9.500 LB	GRAY T5X	C	#24 FHDPE FS PR PVC
1800B T5X5000	5,000 FT	90.000 LB	GRAY T5X		#24 FHDPE FS PR PVC
1800B 007U1000	1,000 FT	17.000 LB	VIOLET		#24 FHDPE FS PR PVC
1800B 0071000	1,000 FT	18.000 LB	VIOLET	C	#24 FHDPE FS PR PVC
1800B 0075000	5,000 FT	90.000 LB	VIOLET		#24 FHDPE FS PR PVC

Notes:
C = CRATE REEL PUT-UP.

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