# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



# 1800B Multi-Conductor - Single-Pair Cable

For more Information please call

1-800-Belden1



# **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	<b>Conductor Material</b>	Dia. (mm)
1	24	7x32	TC - Tinned Copper	0.6096

#### 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	<b>Drain Wire Conductor Material</b>
24	7x32	TC - Tinned Copper

## **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### **Overall Cable**

Overall Nominal Diameter: 4.496 mm

## Pair

#### **Pair Color Code Chart:**



# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +60°C	
UL Temperature Rating:	60°C	
Bulk Cable Weight:	23.811 Kg/Km	
Max. Recommended Pulling Tension:	73.395 N	
Min. Bend Radius (Install)/Minor Axis:	44.450 mm	

## **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CM	MG
CEC/C(UL) Specification: CN	ИG

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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	
C(UL) Flame Test:	FT4
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	1801B
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# **Electrical Characteristics (Overall)**

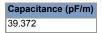
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 85.306

Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 77.7597

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
.384	2.26389
.7056	3.05133
.768	3.14976
1.024	3.51067
1.4112	3.90439
1.536	3.97001
2.048	4.29811
2.8224	4.62621
3.072	4.75745
4.096	5.15117
5.6448	5.77456
6.144	6.00423
8.192	6.59481
11.2896	7.34944
12.288	7.5463
24.576	10.1055

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#### METRIC MEASUREMENT VERSION



## 1800B Multi-Conductor - Single-Pair Cable

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended 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	305 MT	7.711 KG	GRAY T5X		#24 FHDPE FS PR PVC
1800B T5X1000	305 MT	8.165 KG	GRAY T5X	С	#24 FHDPE FS PR PVC
1800B T5X500	152 MT	4.309 KG	GRAY T5X	С	#24 FHDPE FS PR PVC
1800B 007U1000	305 MT	7.711 KG	VIOLET		#24 FHDPE FS PR PVC
1800B 0071000	305 MT	8.165 KG	VIOLET	С	#24 FHDPE FS PR PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 02-26-2010

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