# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



### 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.

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### **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

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

Total Number of Conductors:

#### Insulation

#### **Insulation Material:**

Insulation Trade Name	Insulation Material	Dia. (in.)
Datalene®	FHDPE - Foam High Density Polyethylene	.068

#### **Outer Shield**

### **Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material Coverage	
Beldfoil®	Таре	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: 0.177 in.

#### Pair

### Pair Color Code Chart:



## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +60°C		
UL Temperature Rating:	60°C		
Bulk Cable Weight:	16 lbs/1000 ft.		
Max. Recommended Pulling Tension:	16.500 lbs.		
Min. Bend Radius/Minor Axis:	1.750 in.		

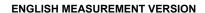
## **Applicable Specifications and Agency Compliance (Overall)**

### **Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMG

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	CEC/C(UL) Specification:	CMG
	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
Fla	ame Test	
	C(UL) Flame Test:	FT4
Ple	enum/Non-Plenum	
	Plenum (Y/N):	No
	Plenum Number:	1801B

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
.384	.69
.7056	.93
.768	.96
1.024	1.07
1.4112	1.19
1.536	1.21
2.048	1.31
2.8224	1.41
3.072	1.45
4.096	1.57
5.6448	1.76
6.144	1.83
8.192	2.01

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11.2896	2.24	
12.288	2.30	
24.576	3.08	

#### 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	С	#24 FHDPE FS PR PVC
1800B T5X500	500 FT	9.500 LB	GRAY T5X	С	#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	С	#24 FHDPE FS PR PVC

#### Notes:

C = CRATE REEL PUT-UP.

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

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