# **Detailed Specifications & Technical Data**

METRIC MEASUREMENT VERSION



### 1801B Multi-Conductor - Single-Pair Cable

For more Information please call

1-800-Belden1



# **General Description:**

Digital Audio Cable, Plenum-CMP, 1-24 AWG stranded tinned copper pair with foam FEP insulation, Beldfoil® shield, drain, Flamarrest® jacket

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

#### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	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)	
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	1.6764	

#### **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:**

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

### **Outer Jacket**

### **Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material		
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride		

### **Overall Cable**

Overall Nominal Diameter: 4.191 mm

#### Pair

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

Number	Color
1	Red & Black

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	17.858 Kg/Km
Max. Recommended Pulling Tension:	73.395 N
Min. Bend Radius/Minor Axis:	44.450 mm

## Applicable Specifications and Agency Compliance (Overall)

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

NEC/(UL) Specification: CMP

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CEC/C(UL) Specification:	CMP
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):	10/01/2005
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	
CSA Flame Test:	FT6
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Non-Plenum Number:	1800B

# **Electrical Characteristics (Overall)**

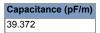
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



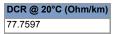
Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
.384	2.69042
.7056	3.31381
.768	3.34662
1.024	3.54348
1.4112	3.77315
1.536	3.80596
2.048	4.03563
2.8224	4.39654
3.072	4.52778
4.096	5.18398
5.6448	5.87299
6.144	6.06985
8.192	6.72605

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11.2896	7.67754
12.288	7.97283
24.576	10.9257

### Max. Operating Voltage - UL:

Voltage 300 V RMS

### Max. Recommended Current:

Current 2.75 Amps per conductor @ 25°C

### **Notes (Overall)**

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1801B Z4BU1000	1,000 FT	14.000 LB	VIO Z4B		2 #24 NFFEP FS FLMRST
1801B Z4B1000	1,000 FT	14.000 LB	VIO Z4B	С	2 #24 NFFEP FS FLMRST
1801B Z4B500	500 FT	8.000 LB	VIO Z4B		2 #24 NFFEP FS FLMRST
1801B 0081000	1,000 FT	14.000 LB	GRAY		2 #24 NFFEP FS FLMRST
1801B 877U1000	1,000 FT	14.000 LB	NATURAL		2 #24 NFFEP FS FLMRST
1801B 8771000	1,000 FT	14.000 LB	NATURAL	С	2 #24 NFFEP FS FLMRST
1801B 877500	500 FT	8.000 LB	NATURAL	С	2 #24 NFFEP FS FLMRST
1801B 8775000	5,000 FT	615.000 LB	NATURAL		2 #24 NFFEP FS FLMRST

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 01-22-2015

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