# **Detailed Specifications & Technical Data**

#### **METRIC MEASUREMENT VERSION**



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



For more Information please call

1-800-Belden1



#### **General Description:**

EU Directive 2011/65/EU (ROHS II):

EU Directive 2000/53/EC (ELV):

EU Directive 2002/95/EC (RoHS):

EU Directive 2002/96/EC (WEEE):

EU RoHS Compliance Date (mm/dd/yyyy):

EU CE Mark:

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 Conductor Material Dia. (mm) 24 7x32 TC - Tinned Copper | 0.6096 **Total Number of Conductors:** 2 Insulation Insulation Material: Insulation Trade Name Insulation Material Dia. (mm) FFEP - Foam Fluorinated Ethylene Propylene | 1.6764 **Outer Shield** Outer Shield Material: Outer Shield Trade Name Type Outer Shield Material Coverage (%) 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 Trade Name Outer Jacket Material LS PVC - Low Smoke Polyvinyl Chloride **Overall Cable Overall Nominal Diameter:** 4.191 mm Pair Pair Color Code Chart: Number Color 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: CEC/C(UL) Specification: CMP

Yes

Yes

Yes

10/01/2005

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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:

Impedance (Ohm)

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 (%)** 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 77.7597

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
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

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1801B Z4B500	500 FT	8.000 LB	VIO Z4B		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

Notes:

C = CRATE REEL PUT-UP

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

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