

1801B Multi-Conductor - Single-Pair Cable



For more Information
please call

1-800-Belden1

**General Description:**

24 AWG stranded (7x32) tinned copper conductors, plenum, foam FEP Teflon® insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG drain wire, Flamarrest® jacket.

Physical Characteristics (Overall)**Conductor**

AWG:

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

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	.066

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

Overall Cable

Overall Nominal Diameter: 0.165 in.

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:	12 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:	CMP
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

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EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
Other Specification:	AES/EBU

Flame Test

CSA Flame Test:	FT6
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Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	1800B

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
110

Nom. Inductance:

Inductance (µH/ft)
.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
12

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
26

Nominal Velocity of Propagation:

VP (%)
78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
23.7

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
.384	.82
.7056	1.01
.768	1.02
1.024	1.08
1.4112	1.15
1.536	1.16
2.048	1.23
2.8224	1.34
3.072	1.38
4.096	1.58
5.6448	1.79
6.144	1.85
8.192	2.05
11.2896	2.34
12.288	2.43
24.576	3.33

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	C	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	C	2 #24 NFFEP FS FLMRST
1801B 877500	500 FT	8.000 LB	NATURAL	C	2 #24 NFFEP FS FLMRST

Notes:

C = CRATE REEL PUT-UP.

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Mouser Electronics

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