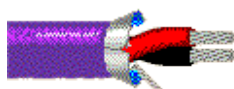


1801B Multi-Conductor - Single-Pair Cable



For more Information
please call

1-800-Belden1



Description:

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

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| | |
|---------------------------------------|------------|
| CEC/C(UL) Specification: | CMP |
| 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:

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 |

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| | |
|--------|------|
| 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 |
| 1801B Z4B500 | 500 FT | 8.000 LB | VIO Z4B | | 2 #24 NFFEP FS FLMRST |
| 1801B 877U1000 | 1,000 FT | 14.000 LB | TAN, OAK | | 2 #24 NFFEP FS FLMRST |
| 1801B 8771000 | 1,000 FT | 14.000 LB | NATURAL | C | 2 #24 NFFEP FS FLMRST |
| 1801B 877500 | 500 FT | 6.000 LB | NATURAL | C | 2 #24 NFFEP FS FLMRST |

Notes:

C = CRATE REEL PUT-UP.

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