Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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, Flamarrest® jacket.

| Physical Characteristics (Overall) | |
|---|-------------------------|
| Conductor | |
| AWG: | |
| # Pairs AWG Stranding Conductor Material Dia. | |
| 1 24 7x32 TC - Tinned Copper .024 | 1 |
| Total Number of Conductors: | 2 |
| Insulation | |
| Insulation Material: | |
| Insulation Trade Name Insulation Material | Dia. (in.) |
| Teflon® FFEP - Foam Fluorinated E | Ethylene Propylene .066 |
| Outer Shield | |
| Outer Shield Material: | |
| Outer Shield Trade Name Type Outer Shield Mat Beldfoil® Tape Aluminum Foil-Poil | |
| | Jyestel Tape Too |
| 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 Po | olvvinyl Chloride |
| | |
| Overall Cable | |
| Overall Nominal Diameter: | 0.165 in. |
| Pair | |
| Pair Color Code Chart: | |
| Number Color 1 Red & Black | |
| | |
| lechanical 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 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 | С | 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 | С | 2 #24 NFFEP FS FLMRST |
| 1801B 877500 | 500 FT | 6.000 LB | NATURAL | С | 2 #24 NFFEP FS FLMRST |

Notes:

C = CRATE REEL PUT-UP.

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