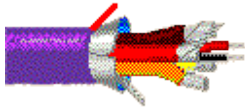


1803F Multi-Conductor - Multi-Pair Snake Cable

For more Information
please call

1-800-Belden1



Description:

24 AWG stranded (7x32) TC conductor, Datalene® insulation, pairs individually shielded with bonded Beldfoil® with a drain wire and have numbered and color-coded PVC jackets, overall Beldfoil® shield/drain wire + overall PVC jacket w/nylon rip cord.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 4 | 24 | 7x32 | TC - Tinned Copper | 0.6096 |

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (mm) |
|-----------------------|--|-----------|
| Datalene® | FHDPE - Foam High Density Polyethylene | 1.7272 |

Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material | Coverage (%) |
|-------------------------|------|-------------------------------------|--------------|
| Beldfoil® | Tape | Bonded Aluminum Foil-Polyester Tape | 100 |

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 24 |

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Inner Jacket

Inner Jacket Material:

| Inner Jacket Material | Nom. Dia. (mm) |
|--------------------------|----------------|
| PVC - Polyvinyl Chloride | 4.2418 |

Inner Jacket Color Code Chart:

| Number | Color |
|--------|-----------------------|
| 1 | Brown and Numbered 1 |
| 2 | Red and Numbered 2 |
| 3 | Orange and Numbered 3 |
| 4 | Yellow and Numbered 4 |

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 |
|-----|-----------|-------------------------------|
| 16 | Stranded | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|-----------------------|
| |

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PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 12.395 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|-------------|
| 1 | Red & Black |
| 2 | Red & Black |
| 3 | Red & Black |
| 4 | Red & Black |

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +60°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 128.283 Kg/Km

Max. Recommended Pulling Tension: 366.976 N

Min. Bend Radius (Install)/Minor Axis: 127 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG

CEC/C(UL) Specification: CMG

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): 01/01/2004

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

UL Flame Test: UL1685 FT4 Loading

C(UL) Flame Test: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

110

Nom. Inductance:

Inductance (µH/m)

0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

39.372

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Nom. Capacitance Cond. to Other Conductor & Shield:

| Capacitance (pF/m) |
|--------------------|
| 85.306 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 76 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 77.7597 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| .384 | 2.26389 |
| .7056 | 3.05133 |
| .768 | 3.14976 |
| 1.024 | 3.51067 |
| 1.4112 | 3.90439 |
| 1.536 | 3.97001 |
| 2.048 | 4.29811 |
| 2.8224 | 4.62621 |
| 3.0720 | 4.75745 |
| 4.096 | 5.15117 |
| 5.6448 | 5.77456 |
| 6.144 | 6.00423 |
| 8.192 | 6.59481 |
| 11.2896 | 7.34944 |
| 12.288 | 7.5463 |
| 24.576 | 10.1055 |

Max. Operating Voltage - UL:

| Voltage |
|-----------|
| 300 V RMS |

Max. Recommended Current:

| Current |
|--------------------------------|
| 2.75 Amps per conductor @ 25°C |

Notes (Overall)

Notes: Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|--------|-------------|---------|-------|------------------------------|
| 1803F Z4B1000 | 305 MT | 48.535 KG | VIO Z4B | C | 4 #24 FHDPE FS PR PVC FS PVC |
| 1803F Z4B500 | 152 MT | 26.082 KG | VIO Z4B | C | 4 #24 FHDPE FS PR PVC FS PVC |

Notes:
C = CRATE REEL PUT-UP.

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1803F Multi-Conductor - Multi-Pair Snake Cable

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