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please call

1-800-Belden1



General 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) |
|---------|-----|-----------|--------------------|-----------|
| 24 | 24 | 7x32 | TC - Tinned Copper | 0.6096 |

Total Number of Conductors: 48

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 |
| 5 | Green and Numbered 5 |
| 6 | Blue and Numbered 6 |
| 7 | Purple and Numbered 7 |
| 8 | Gray and Numbered 8 |
| 9 | White and Numbered 9 |
| 10 | Black and Numbered 10 |
| 11 | Tan and Numbered 11 |
| 12 | Pink and Numbered 12 |
| 13 | Gray/Brown Stripe and Numbered 13 |
| 14 | Gray/Red Stripe and Numbered 14 |
| 15 | Gray/Orange Stripe and Numbered 15 |

| | |
|----|------------------------------------|
| 16 | Gray/Yellow Stripe and Numbered 16 |
| 17 | Gray/Green Stripe and Numbered 17 |
| 18 | Gray/Blue Stripe and Numbered 18 |
| 19 | Gray/Purple Stripe and Numbered 19 |
| 20 | Gray/Gray Stripe and Numbered 20 |
| 21 | Gray/White Stripe and Numbered 21 |
| 22 | Gray/Black Stripe and Numbered 22 |
| 23 | Gray/Tan Stripe and Numbered 23 |
| 24 | Gray/Pink Stripe and Numbered 24 |

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 |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 30.734 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|-------------|
| 1 | Red & Black |
| 2 | Red & Black |
| 3 | Red & Black |
| 4 | Red & Black |
| 5 | Red & Black |
| 6 | Red & Black |
| 7 | Red & Black |
| 8 | Red & Black |
| 9 | Red & Black |
| 10 | Red & Black |
| 11 | Red & Black |
| 12 | Red & Black |
| 13 | Red & Black |
| 14 | Red & Black |
| 15 | Red & Black |
| 16 | Red & Black |
| 17 | Red & Black |
| 18 | Red & Black |
| 19 | Red & Black |
| 20 | Red & Black |
| 21 | Red & Black |
| 22 | Red & Black |
| 23 | Red & Black |
| 24 | Red & Black |

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 830.416 Kg/Km

Max. Recommended Pulling Tension: 1779.280 N

Min. Bend Radius/Minor Axis: 307.340 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG

CEC/C(UL) Specification: CMG

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): 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

CSA 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

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)

| | |
|-------|-------|
| 0.384 | 0.951 |
| 0.706 | 2.330 |
| 0.768 | 2.526 |
| 1.024 | 3.084 |
| 1.411 | 3.609 |
| 1.536 | 3.609 |
| 2.048 | 4.265 |

| | |
|--------|--------|
| 2.822 | 4.593 |
| 3.072 | 4.593 |
| 4.096 | 4.922 |
| 5.645 | 5.578 |
| 6.144 | 5.906 |
| 8.192 | 6.562 |
| 11.290 | 7.218 |
| 12.288 | 7.546 |
| 24.576 | 10.171 |

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 |
|---------------|----------|-------------|---------|-------|-------------------------|
| 1852F Z4B1000 | 1,000 FT | 645.000 LB | VIO Z4B | C | 24 FS PR #24 PVC FS PVC |
| 1852F Z4B500 | 500 FT | 321.000 LB | VIO Z4B | C | 24 FS PR #24 PVC FS PVC |

Notes:
C = CRATE REEL PUT-UP.

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