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please call

1-800-Belden1



Description:

20 AWG stranded (7x28) tinned copper conductors, polyethylene insulation, overall Beldfoil® (100% coverage) plus a tinned copper braid shield (55% coverage), PVC inner jacket, steel interlocked armor, sunlight-resistant PVC outer jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 1 | 20 | 7x28 | TC - Tinned Copper | 0.9652 |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Material |
|---------------------|
| PE - Polyethylene |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 55 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 20 | 7x28 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Diameter:

| Nom. Dia. (mm) |
|----------------|
| 6.0452 |

Outer Jacket over Armor (y/n): Y

Armor

Armor Type: Interlocked

Armor Material: Steel

Armor Thickness: .025

Diameter over Armor: .453

Overall Cable

Overall Nominal Diameter: 14.300 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|--------------|
| 1 | Clear & Blue |

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|----------------|
| Operating Temperature Range: | -40°C To +60°C |
| Bulk Cable Weight: | 333.357 Kg/Km |
| Max. Recommended Pulling Tension: | 911.881 N |
| Min. Bend Radius/Minor Axis: | 165.100 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---|---------------------------|
| NEC/(UL) Specification: | CM, CL2 |
| CEC/C(UL) Specification: | CM, CMG FT4, HLBCD |
| 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 |
| Customer Part Number Reference Specification: | Allen Bradley P/N 1770-CD |

Flame Test

| | |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

78

Nom. Inductance:

Inductance (µH/m)

0.39372

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

64.6357

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

118.116

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/m)

5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

31.1695

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

13.4521

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 1.9686 |
| 10 | 6.8901 |
| 50 | 16.405 |
| 100 | 24.6075 |
| 200 | 36.091 |
| 400 | 52.496 |

Max. Operating Voltage - UL:

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

Other Electrical Characteristic 1: DC Resistance Unbalanced: .77 Ohms/1000 ft Max

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|--------------|-------|------------------------|
| 139463 J221000 | 305 MT | 105.234 KG | BLUE, STRONG | C Z | 9463 STEEL ARMORED PVC |
| 139463 J226000 | 1,829 MT | 650.454 KG | BLUE, STRONG | C Z | 9463 STEEL ARMORED PVC |

Notes:

C = CRATE REEL PUT-UP.
Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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