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1-800-Belden1



General Description:

20 AWG stranded (7x28) tinned copper conductors, FEP insulation, twisted pairs, individual Beldfoil® shields (100% coverage), overall polyester isolation tape and Duofoil® shield plus a tinned copper braid shield (95% coverage), fluorocopolymer jacket.

Usage (Overall)

Suitable Applications: 10Base5 Transceiver

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 20 | 7x28 | TC - Tinned Copper |

Total Number of Conductors: 8

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Wall Thickness (in.) |
|-----------------------|--------------------------------------|----------------------|
| Teflon® | FEP - Fluorinated Ethylene Propylene | 0.011 |

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 22 |

Inner Shield Drain Wire Stranding: 7x30

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 95 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|------------------------|---------------------------|
| PVDF - Fluorocopolymer | 0.014 |

Overall Cable

Overall Cabling Separator Material: Polyester Tape

Overall Nominal Diameter: 0.359 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|-----------------|
| 1 | Gray & White |
| 2 | Yellow & Orange |
| 3 | Blue & Green |
| 4 | Red & Black |

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +150°C

UL Temperature Rating: 150°C

Bulk Cable Weight: 90 lbs/1000 ft.

Max. Recommended Pulling Tension: 175 lbs.

| | |
|------------------------------|-----------|
| Min. Bend Radius/Minor Axis: | 3.750 in. |
|------------------------------|-----------|

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---|------------|
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| IEEE Specification: | IEEE802.3 |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| 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: | 1700321-02 |

Flame Test

| | |
|-----------------|----------|
| UL Flame Test: | NFPA 262 |
| CSA Flame Test: | FT6 |

Plenum/Non-Plenum

| | |
|--------------------|------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 9901 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Impedance (Ohm) | Tolerance (Ohms) |
|-----------------|------------------|
| 78 | ± 5 |

Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| .2 |

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/ft) |
|---------------------|
| 16.7 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| Capacitance (pF/ft) |
|---------------------|
| 29.5 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 78 |

Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.30 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 9.5 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 1.5 |

Max. Attenuation:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Attenuation (dB/100 m) |
|-------------|-------------|-------------------|------------------|------------------------|
| | 10 | | | 6 |

Max. Operating Voltage - UL:

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

Max. Recommended Current:

| Current |
|-------------------------------|
| 2.8 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 |
|---------------|----------|-------------|-------|-------|-----------------------|
| 89892 0011000 | 1,000 FT | 99.000 LB | BROWN | C | 4 FS PR#20 FEP SH SLF |
| 89892 001500 | 500 FT | 49.000 LB | BROWN | C | 4 FS PR#20 FEP SH SLF |

Notes:

C = CRATE REEL PUT-UP.

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