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1-800-Belden1



General Description:

78 ohm, 20 AWG stranded (7x28) .038" tinned copper conductors, plenum, FEP Teflon® insulation, tinned copper braid shield (93% coverage), FEP Teflon® jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1 | 20 | 7x28 | TC - Tinned Copper | .038 |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Wall Thickness (in.) | Dia. (in.) |
|-----------------------|--------------------------------------|----------------------|------------|
| Teflon® | FEP - Fluorinated Ethylene Propylene | 0.018 | 0.074 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper | 93 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material | Nom. Wall Thickness (in.) |
|-------------------------|--------------------------------------|---------------------------|
| Teflon® | FEP - Fluorinated Ethylene Propylene | 0.014 |

Overall Cable

Overall Nominal Diameter: 0.198 in.

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|-----------------|
| Operating Temperature Range: | -70°C To +200°C |
| Bulk Cable Weight: | 34 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 68 lbs. |
| Min. Bend Radius/Minor Axis: | 2 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU CE Mark: | No |
| 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 |
| MIL Order #39 (China RoHS): | Yes |

Flame Test

UL Flame Test: NFPA 262

CSA Flame Test: FT6

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes

Suitability - Burial: Yes

Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 9272

Electrical Characteristics (Overall)**Nom. Characteristic Impedance:****Impedance (Ohm)**

78

Nom. Inductance:**Inductance (µH/ft)**

0.200

Nom. Capacitance Conductor to Conductor:**Capacitance (pF/ft)**

18.4

Nominal Velocity of Propagation:**VP (%)**

69.5

Nominal Delay:**Delay (ns/ft)**

1.46

Nom. Conductor DC Resistance:**DCR @ 20°C (Ohm/1000 ft)**

9.5

Nominal Outer Shield DC Resistance:**DCR @ 20°C (Ohm/1000 ft)**

3.9

Nom. Attenuation:**Freq. (MHz) Attenuation (dB/100 ft.)**

1 0.6

10 2.1

50 5.0

100 7.5

200 11.0

400 16.0

Max. Operating Voltage - UL:**Voltage**

300 V RMS

Max. Operating Voltage - Non-UL:**Voltage**

600 V RMS

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. Suitable for aerial applications when supported by a messenger wire.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|-------------------------|
| 89272 0061000 | 1,000 FT | 38.000 LB | BLUE, LIGHT | C | 2#20 FEP BRD FEP 78 OHM |
| 89272 006500 | 500 FT | 19.000 LB | BLUE, LIGHT | C | 2#20 FEP BRD FEP 78 OHM |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 10-16-2012

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