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please call

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. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 1       | 20  | 7x28      | TC - Tinned Copper | 0.9652    |

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

| Insulation Trade Name | Insulation Material                  | Wall Thickness (mm) | Dia. (mm) |
|-----------------------|--------------------------------------|---------------------|-----------|
| Teflon®               | FEP - Fluorinated Ethylene Propylene | 0.457               | 1.880     |

#### 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 (mm) |
|-------------------------|--------------------------------------|--------------------------|
| Teflon®                 | FEP - Fluorinated Ethylene Propylene | 0.356                    |

#### Overall Cable

Overall Nominal Diameter: 5.029 mm

#### Pair

##### Pair Color Code Chart:

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

### Mechanical Characteristics (Overall)

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -70°C To +200°C |
| Bulk Cable Weight:                | 50.599 Kg/Km    |
| Max. Recommended Pulling Tension: | 302.478 N       |
| Min. Bend Radius/Minor Axis:      | 50.800 mm       |

### 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 |
|-----------------------------------|-----|

|                             |     |
|-----------------------------|-----|
| MII 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/m)

0.6562

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)

60.3704

**Nominal Velocity of Propagation:**

VP (%)

69.5

**Nominal Delay:**

Delay (ns/m)

4.79026

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)

31.1695

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)

12.7959

**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

**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.

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