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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

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/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.

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