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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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