

89272 Twinax - 78 Ohm Twinax


 For more Information  
 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. (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
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EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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**Flame Test**

UL Flame Test:	NFPA 262
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CSA Flame Test:	FT6
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**Suitability**

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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Suitability - Aerial:	Yes
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Suitability - Burial:	Yes
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**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
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Non-Plenum Number:	9272
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**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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