# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



#### 89272 Twinax - 78 Ohm Twinax

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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	<b>Conductor Material</b>	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:**

	Outer Shield Material	
Braid	TC - Tinned Copper	93

#### **Outer Jacket**

#### **Outer Jacket Material:**

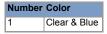
Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.014

#### **Overall Cable**

Overall Nominal Diameter: 0.198 in.

## Pair

#### Pair Color Code Chart:



## **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

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## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nominal Velocity of Propagation:



**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

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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:

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Voltage

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	С	2#20 FEP BRD FEP 78 OHM
89272 006500	500 FT	19.000 LB	BLUE, LIGHT	С	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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