

## 89182 Twinax - Twinaxial Cable

For more Information  
please call

1-800-Belden1



### Description:

22 AWG stranded (19x34) tinned copper conductors, foam FEP Teflon® insulation, Duofoil® (100% coverage) plus a stranded tinned copper drain wire, FEP Teflon jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	19x34	TC - Tinned Copper	.031

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	.278

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	19x34	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Teflon®	FEP - Fluorinated Ethylene Propylene

#### Overall Cable

Overall Nominal Diameter: 0.307 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Yellow

##### Pair Lay Length & Direction:

Lay Length (in.)	Twists (twist/ft)	Direction
3.000	4.000	Left Hand Lay

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 48.700 lbs/1000 ft.

Max. Recommended Pulling Tension: 28 lbs.

Min. Bend Radius/Minor Axis: 3.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CMP
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
C(UL) Flame Test:	FT6

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9182

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

150

### Nom. Inductance:

Inductance (µH/ft)

0.29

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

8.8

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

16.5

### Nominal Velocity of Propagation:

VP (%)

78

### Nominal Delay:

Delay (ns/ft)

1.3

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14.0

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.3

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	0.4
10	1.2
50	2.7
100	4.3
200	6.2

400	8.8
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**Max. Operating Voltage - UL:**

Voltage
300 V RMS (CMP)
150 V RMS (CL2P)

**Notes (Overall)**

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. Other Maximum Continuous Currents: 2.9 Amps per conductor @ 25°C

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89182 010100	100 FT	6.400 LB	BLACK	C	2 #22 FFEP FS FEP
89182 0101000	1,000 FT	53.000 LB	BLACK	C	2 #22 FFEP FS FEP
89182 010500	500 FT	28.000 LB	BLACK	C	2 #22 FFEP FS FEP

**Notes:**  
C = CRATE REEL PUT-UP.

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