

9815 Twinax - 100 Ohm Twinax

 For more Information
 please call

1-800-Belden1

**Description:**

100 ohm, 20 AWG stranded (7x28) .037" one tinned/ one bare copper conductors, polyethylene insulation, Duofoil® + TC braid shield (95% coverage), high-density polyethylene jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
1	20	7x28	TC - Tinned Copper
			BC - Bare Copper

Total Number of Conductors: 2
Insulation**Insulation Material:**

Insulation Material
PE - Polyethylene

Inner Jacket**Inner Jacket Material:**

Inner Jacket Material	Nom. Dia. (in.)
PE - Polyethylene	.236

Outer Shield**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Shield Flooding Grease: Polyethylene Grease
Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
HDPE - High Density Polyethylene

Overall Cable
Overall Nominal Diameter: 0.330 in.
Pair**Pair Color Code Chart:**

Number	Color
1	Natural & Natural

Mechanical Characteristics (Overall)
Operating Temperature Range: -55°C To +80°C

Bulk Cable Weight: 60.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 115 lbs.

Min. Bend Radius/Minor Axis: 3.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU CE Mark:	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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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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Suitability

Suitability - Burial:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

100

Nom. Inductance:

Inductance (μH/ft)

0.155

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

14.5

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

23.0

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/ft)

1.54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
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1	0.4
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10	1.1
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50	2.5
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100	4.1
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200	6.4
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400	10.2
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Max. Operating Voltage - Non-UL:

Voltage

600 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9815 0101000	1,000 FT	69.000 LB	BLACK	C	TW PR #20 PE PE BRD PE
9815 010500	500 FT	34.500 LB	BLACK		TW PR #20 PE PE BRD PE

Notes:

C = CRATE REEL PUT-UP.

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