

9815 Twinax - 100 Ohm Twinax

	For more Information please call 1-800-Belden1
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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
1.000	20	7x28	TC - Tinned Copper
			BC - Bare Copper

Insulation:

Insulation Material

Ins Material
PE - Polyethylene

Inner Jacket:

Inner Jacket Material

Inner Jacket Material	Nom. Dia. (in.)
PE - Polyethylene	0.236

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 Cabling:

Overall Nominal Diameter: .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 (Install):	3.500 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

EU CE Mark (Y/N) Yes

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EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	01/01/2004

Suitability:

Suitability - Burial	Yes
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Plenum/Non-Plenum:

Plenum (Y/N)	N
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Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
100.000

Nom. Inductance

Inductance (µH/ft)
0.155

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
14.500

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
23.000

Nominal Velocity of Propagation

VP (%)
66

Nominal Delay

Delay (ns/ft)
1.540

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
9.500

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.400
	10.000			1.100
	50.000			2.500
	100.000			4.100
	200.000			6.400
	400.000			10.200

Max. Operating Voltage - Non-UL

Voltage
600 V RMS

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.000

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
9815 0101000	1,000 FT	69.000 LB	BLACK	C	TW PR #20 PE PE BRD PE BLK
9815 0102000	2,000 FT	134.000 LB	BLACK	C	TW PR #20 PE PE BRD PE BLK
9815 010500	500 FT	34.500 LB	BLACK		TW PR #20 PE PE BRD PE BLK

Notes:

C = CRATE REEL PUT-UP.

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