Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9815 Twinax - 100 Ohm Twinax

2

For more Information please call

1-800-Belden1



General 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

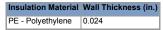
AWG:

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

Total Number of Conductors:

Insulation

Insulation Material:



Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom Wall (in.)	Nom. Dia. (in.)
PE - Polyethylene	0.035	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	Nom. Wall Inickness (in.)
HDPE - High Density Polyethylene	0.034

Overall Cable

Overall Nominal Diameter:

0.330 in.

Pair

Pair Color Code Chart:



Mechanical Characteristics (Overall)

Operating Temperature Range:	-55°C To +80°C
Bulk Cable Weight:	62 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 Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes

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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance	(Ohm)
100	

Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nominal Delay:



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.)
1	0.4
10	1.1
50	2.5
100	4.1
200	6.4
400	10.2

Max. Operating Voltage - Non-UL:

600 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9815 0101000	1,000 FT	69.000 LB	BLACK	С	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.

Revision Number: 2 Revision Date: 10-16-2012

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