Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9815 Twinax - 100 Ohm Twinax

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.

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Physical Characteristics (Overall)

Conductor

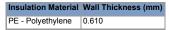
AWG:

# Pairs	AWG	Stranding	Conductor Material	
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 (mm)	Nom. Dia. (mm)
PE - Polyethylene	0.889	5.994

Outer Shield

Outer Shield Material:

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

Outer Shield Flooding Grease:

Polyethylene Grease

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)		
HDPE - High Density Polyethylene	0.864		

Overall Cable

Overall Nominal Diameter:

8.382 mm

Pair

Pair Color Code Chart:



Mechanical Characteristics (Overall)

Operating Temperature Range:	-55°C To +80°C		
Bulk Cable Weight:	92.268 Kg/Km		
Max. Recommended Pulling Tension:	511.543 N		
Min. Bend Radius/Minor Axis:	88.900 mm		

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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	EU Directive 2003/11/EC (BFR):	Yes
	CA Prop 65 (CJ for Wire & Cable):	Yes
	MII Order #39 (China RoHS):	Yes
Sui	tability	
	Suitability - Burial:	Yes
Ple	num/Non-Plenum	
	Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/m) 0.508555

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 47.5745

Nom. Capacitance Cond. to Other Conductor & Shield:

75 463

Nominal Velocity of Propagation:

Nominal Delay:

Delay (ns/m) 5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 31.1695

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 6 562

Nom Attenuation

oni. Attenuation.		
	Freq. (MHz)	Attenuation (dB/100m)
	1	1.3124
	10	3.6091
	50	8.2025
	100	13.4521
	200	20.9984
	400	33.4662

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: 3 Revision Date: 04-04-2017

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