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.

Physical Characteristics (Overall)

Conductor

AWG:

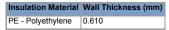
# Pairs	irs AWG Stranding Conductor M		Conductor Material
1	20	7x28	TC - Tinned Copper
			BC - Bare Copper

Total Number of Conductors:

2

Insulation

Insulation Material:



Inner Jacket

Inner Jacket Material:

ľ	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 (%)	
	1	Duofoil®	Таре	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 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

Page 1 of 3 11-05-2015

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9815 Twinax - 100 Ohm Twinax

	EU Directive 2003/11/EC (BFR):	Yes
	CA Prop 65 (CJ for Wire & Cable):	Yes
	MII Order #39 (China RoHS):	Yes
Sui	itability	
	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

۰	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: 2 Revision Date: 10-16-2012

© 2015 Belden, Inc All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the

Page 2 of 3 11-05-2015

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9815 Twinax - 100 Ohm Twinax

sate handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

Page 3 of 3 11-05-2015