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

Total Number of Conductors: 2

#### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (mm)
PE - Polyethylene	0.610

#### **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		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 Thickness (mm)
HDPE - High Density Polyethylene	0.864

#### **Overall Cable**

Overall Nominal Diameter: 8.382 mm

#### Pair

### Pair Color Code Chart:

Number	Color		
1	Natural & Natural		

## **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

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

### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



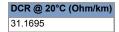
Nominal Velocity of Propagation:



**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 6.562

Nom. Attenuation:

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

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#### Max. Operating Voltage - Non-UL:

600 V RMS

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9815 0101000	305 MT	31.298 KG	BLACK	С	TW PR #20 PE PE BRD PE
9815 010500	152 MT	15.649 KG	BLACK		TW PR #20 PE PE BRD PE

#### Notes:

C = CRATE REEL PUT-UP.

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