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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	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

## 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
<b>Suitability</b>	
Suitability - Burial:	Yes
<b>Plenum/Non-Plenum</b>	
Plenum (Y/N):	No

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

**Impedance (Ohm)**  
100

### Nom. Inductance:

**Inductance (µH/m)**  
0.508555

### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/m)**  
47.5745

### Nom. Capacitance Cond. to Other Conductor & Shield:

**Capacitance (pF/m)**  
75.463

### Nominal Velocity of Propagation:

**VP (%)**  
66

### 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:

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:

**Voltage**  
600 V RMS

## Put Ups and Colors:

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

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