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1-800-Belden1



## General Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shields (95% and 80% coverage), polyethylene jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BC - Bare Copper	.032

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.145

### Inner Shield

Inner Shield Material:

Type	Inner Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

### Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PE - Polyethylene	.225

### Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	80

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

### Overall Cable

Overall Nominal Diameter: 0.315 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -55°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 55 lbs/1000 ft.

Max. Recommended Pulling Tension: 125 lbs.

Min. Bend Radius/Minor Axis: 3.250 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: No

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
MIL Order #39 (China RoHS):	Yes
RG Type:	59/U

**Suitability**

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes - when supported by a messenger wire
Suitability - Burial:	Yes

**Plenum/Non-Plenum**

Plenum (Y/N):	No
Plenum Number:	88232

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

<b>Impedance (Ohm)</b>
75

**Nom. Inductance:**

<b>Inductance (µH/ft)</b>
0.097

**Nom. Capacitance Conductor to Shield:**

<b>Capacitance (pF/ft)</b>
16.2

**Nominal Velocity of Propagation:**

<b>VP (%)</b>
83

**Nominal Delay:**

<b>Delay (ns/ft)</b>
1.22

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
10.0

**Nom. Inner Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
2.5

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
2.8

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.3
3.6	0.6
10	0.9
71.5	2.1
135	3.0
270	4.2
360	4.8
540	5.9
720	7.0
750	7.1
1000	8.3
1500	10.5
2250	13.4
3000	15.9

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

<b>Voltage</b>
300 V RMS

**Minimum Structural Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	850	21
851	3000	15

### Sweep Test

Sweep Testing: 100% sweep tested 5 MHz to 3 GHz.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8232 0101000	1,000 FT	60.000 LB	BLACK	C	RG-59/U TYPE TRIAX
8232 0102000	2,000 FT	118.000 LB	BLACK	C	RG-59/U TYPE TRIAX
8232 010500	500 FT	31.000 LB	BLACK		RG-59/U TYPE TRIAX

**Notes:**

C = CRATE REEL PUT-UP.

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