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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. (mm)
1	20	Solid	BC - Bare Copper	0.8128

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	3.683

### 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. (mm)
PE - Polyethylene	5.715

### 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: 8.001 mm

## Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 81.851 Kg/Km

Max. Recommended Pulling Tension: 556.025 N

Min. Bend Radius/Minor Axis: 82.550 mm

## 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
MII 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/m)</b>
0.318257

**Nom. Capacitance Conductor to Shield:**

<b>Capacitance (pF/m)</b>
53.1522

**Nominal Velocity of Propagation:**

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

**Nominal Delay:**

<b>Delay (ns/m)</b>
4.00282

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
32.81

**Nom. Inner Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
8.2025

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
9.1868

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
3.6	1.9686
10	2.9529
71.5	6.8901
135	9.843
270	13.7802
360	15.7488
540	19.3579
720	22.967
750	23.2951
1000	27.2323
1500	34.4505
2250	43.9654
3000	52.1679

**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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