

## 8232 Coax - RG-59/U Type

For more Information  
please call

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
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:**

Impedance (Ohm)

75

**Nom. Inductance:**

Inductance (μH/ft)

0.097

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)

16.2

**Nominal Velocity of Propagation:**

VP (%)

83

**Nominal Delay:**

Delay (ns/ft)

1.22

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

10.0

**Nom. Inner Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

2.5

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

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:**

Voltage
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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