

## 8232 Coax - RG-59/U Type

For more Information  
please call

1-800-Belden1



### Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

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

#### 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 (Install)/Minor Axis: 3.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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:**

<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.

**Related Documents:**

No related documents are available for this product

**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	116.000 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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