

88232 Coax - RG-59/U Type

For more Information  
please call

1-800-Belden1



## Description:

20 AWG solid .032" bare copper conductor, plenum, foam FEP insulation, bare copper braid shields (95% coverage), FEP 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.)
FFEP - Foam Fluorinated Ethylene Propylene	.140

### 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.)
FEP - Fluorinated Ethylene Propylene	.188

### Outer Shield

Outer Shield Material:

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

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

### Overall Cable

Overall Nominal Diameter: 0.245 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +200°C

UL Temperature Rating: 200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 58 lbs/1000 ft.

Max. Recommended Pulling Tension: 140 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	04/01/2005
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

### Flame Test

UL Flame Test:	NFPA 262
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### Suitability

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

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	8232A

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)  
75

### Nom. Inductance:

Inductance ( $\mu$ H/ft)  
0.097

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)  
16.9

### Nominal Velocity of Propagation:

VP (%)  
80

### Nominal Delay:

Delay (ns/ft)  
1.30

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
10.0

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
2.6

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
2.6

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	0.4
3.6	0.6
10	0.8
71.5	2.2
135	3.1
270	4.5
360	5.3
540	6.6
720	7.7
750	7.9
1000	9.4
1500	12.1
2250	15.6
3000	18.7

**Max. Operating Voltage - 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
88232 0101000	1,000 FT	62.000 LB	BLACK	C	#20 TRIAX FFEP RG59/U TYPE
88232 010500	500 FT	29.000 LB	BLACK	C	#20 TRIAX FFEP RG59/U TYPE

**Notes:**  
C = CRATE REEL PUT-UP.

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