

## 8240 Coax - RG-58A/U Type

For more Information  
please call

1-800-Belden1



### Description:

RG-58A/U type, 20 AWG solid .033" bare copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BC - Bare Copper	.033

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (in.)
PE - Polyethylene	.116

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.193 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	80°C (UL AWM Style 1354)
Bulk Cable Weight:	25 lbs/1000 ft.
Max. Recommended Pulling Tension:	47 lbs.
Min. Bend Radius (Install)/Minor Axis:	2 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMX
CEC/C(UL) Specification:	CMX
AWM Specification:	UL Style 1354 (30 V 80°C)
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:	58/U

### Flame Test

UL Flame Test:	UL1685 UL Loading, VW-1
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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):	No
Plenum Number:	88240, 82240

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
52

### Nom. Inductance:

Inductance (µH/ft)
0.080

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
28.5

### Nominal Velocity of Propagation:

VP (%)
66

### Nominal Delay:

Delay (ns/ft)
1.54

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
10.0

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.1

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.3
10	1.1
50	2.5
100	3.8
200	5.6
400	8.4
700	11.7
900	13.7
1000	14.5

### Max. Power Rating:

Freq. (MHz)	Rating (W)
50	530
100	350

400	160
1000	90

**Max. Operating Voltage - UL:**

Voltage
300 V RMS (CMX)
30 V RMS (UL AWM Style 1354)

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

Voltage
1400 V RMS

**Other Electrical Characteristic 1:** Actual Impedance specification is 51.5 +/- 1.5 ohms.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8240 010U1000	1,000 FT	27.000 LB	BLACK		#20 PE BRD FRPVC
8240 010U500	500 FT	14.000 LB	BLACK		#20 PE BRD FRPVC
8240 010100	100 FT	3.300 LB	BLACK		#20 PE BRD FRPVC
8240 0101000	1,000 FT	27.000 LB	BLACK	C	#20 PE BRD FRPVC
8240 010500	500 FT	14.500 LB	BLACK	C	#20 PE BRD FRPVC

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

Revision Number: 1    Revision Date: 09-23-2008

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