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1-800-Belden1



## General 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. (mm)
1	20	Solid	BC - Bare Copper	0.8382

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PE - Polyethylene	2.9464

### 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: 4.902 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 80°C (UL AWM Style 1354)

Bulk Cable Weight: 38.693 Kg/Km

Max. Recommended Pulling Tension: 209.065 N

Min. Bend Radius/Minor Axis: 50.800 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/UL) Specification:	CMX
CEC/C(UL) Specification:	CMX
AWM Specification:	UL Style 1354
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:	58/U

**Flame Test**

UL Flame Test: VW-1

**Suitability**

Suitability - Indoor: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): No

Plenum Number: 88240, 82240

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
52

**Nom. Inductance:**

Inductance (µH/m)  
0.26248

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)  
93.5085

**Nominal Velocity of Propagation:**

VP (%)  
66

**Nominal Delay:**

Delay (ns/m)  
5.05274

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)  
32.81

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)  
13.4521

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
10	3.6091
50	8.2025
100	12.4678
200	18.3736
400	27.5604
700	38.3877
900	44.9497
1000	47.5745

**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.

**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

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

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

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
8240 0105000	5,000 FT	135.000 LB	BLACK	C	#20 PE BRD FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

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