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

### 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 Cabling

**Overall Nominal Diameter:** 4.902 mm

## Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-40°C To +75°C
<b>UL Temperature Rating:</b>	80°C (UL AWM Style 1354)
<b>Bulk Cable Weight:</b>	37.205 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	209.065 N
<b>Min. Bend Radius (Install)/Minor Axis:</b>	50.800 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMX
<b>CEC/C(UL) Specification:</b>	CMX
<b>AWM Specification:</b>	UL Style 1354 (30 V 80°C)
<b>EU CE Mark:</b>	No
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2004
<b>EU Directive 2002/96/EC (WEEE):</b>	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/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.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8240 010U1000	305 MT	12.247 KG	BLACK		#20 PE BRD FRPVC
8240 010U500	152 MT	6.350 KG	BLACK		#20 PE BRD FRPVC
8240 010100	30 MT	1.497 KG	BLACK		#20 PE BRD FRPVC
8240 0101000	305 MT	11.793 KG	BLACK	C	#20 PE BRD FRPVC
8240 010500	152 MT	5.897 KG	BLACK	C	#20 PE BRD FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

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

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