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1-800-Belden1



## General Description:

RG-58/U type, 20 AWG solid .032" bare copper conductor, plenum, FEP teflon insulation, tinned copper braid shield (95% coverage), Flamarrest® jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

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

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	.107

### Outer Shield

Outer Shield Material:

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

### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 0.159 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 24 lbs/1000 ft.

Max. Recommended Pulling Tension: 47 lbs.

Min. Bend Radius/Minor Axis: 1.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 10/01/2005

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: 58/U

### Flame Test

UL Flame Test: NFPA 262

CSA Flame Test: FT6

**Suitability**

Suitability - Indoor: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): Yes

Non-Plenum Number: 8240

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

**Impedance (Ohm)**

53

**Nom. Inductance:**

**Inductance (µH/ft)**

0.070

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/ft)**

26.4

**Nominal Velocity of Propagation:**

**VP (%)**

69.5

**Nominal Delay:**

**Delay (ns/ft)**

1.48

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**

10.2

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**

6.7

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.5
10	1.2
50	3.0
100	4.3
200	6.4
400	9.7
700	13.7
900	16.1
1000	17.3

**Nom. Power Rating:**

Freq. (MHz)	Rating (W)
1	4798.7
10	1937.2
50	782.4
100	542.2
200	370.3
400	248.5
700	177.7
900	153.0
1000	143.2

**Max. Operating Voltage - UL:**

**Voltage**

300 V RMS

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

**Voltage**

1400 V RMS

**Notes (Overall)**

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

**Put Ups and Colors:**

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

82240 Coax - RG-58/U Type

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82240 010U500	500 FT	13.500 LB	BLACK		#20 FEP RG58/U FLMRST
82240 877U1000	1,000 FT	26.000 LB	NATURAL		#20 FEP RG58/U FLMRST
82240 877U500	500 FT	13.500 LB	NATURAL		#20 FEP RG58/U FLMRST
82240 8771000	1,000 FT	26.000 LB	NATURAL	C	#20 FEP RG-58/U FLMRST

**Notes:**

C = CRATE REEL PUT-UP.

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