Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

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. (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 (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

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.

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	12.247 KG	BLACK	C	#20 PE BRD FRPVC
8240 010500	152 MT	6.577 KG	BLACK	C	#20 PE BRD FRPVC
8240 0105000	1,524 MT	61.235 KG	BLACK	C	#20 PE BRD FRPVC

Notes:
C = CRATE REEL PUT-UP.

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