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1-800-Belden1



General Description:

RG-58A/U type, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	19x32	TC - Tinned Copper	0.9398

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FPE - Foam Polyethylene	2.8956

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95.000

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 +80°C

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

Bulk Cable Weight: 37.205 Kg/Km

Max. Recommended Pulling Tension: 222.410 N

Min. Bend Radius/Minor Axis: 50.800 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

AWM Specification: UL Style 1354 (30 V 80°C)

EU CE Mark: Yes

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
PMSHA Specification:	SC-182/5
RG Type:	58A/U

Flame Test

UL Flame Test:	UL1685 UL Loading
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black jacket only
Suitability - Aerial:	Yes - Black jacket only - when supported by a messenger wire

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

54

Nom. Inductance:

Inductance (µH/m)

0.213265

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

86.9465

Nominal Velocity of Propagation:

VP (%)

73

Nominal Delay:

Delay (ns/m)

4.56059

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

28.8728

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

13.4521

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1	1.3124
10	4.2653
50	10.1711
100	14.7645
200	21.6546
400	32.81
700	46.5902
900	54.4646
1000	59.3861

Max. Operating Voltage - UL:

Voltage

30 V RMS (UL AWM Style 1354)

300 V RMS (CM)

Other Electrical Characteristic 1: Actual Impedance specification is 53.5 +/- 3 ohms.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8219 009U500	152 MT	6.350 KG	WHITE		RG58A/U TYPE COAX
8219 0091000	305 MT	12.701 KG	WHITE	C	RG58A/U TYPE COAX
8219 010U1000	305 MT	12.247 KG	BLACK		RG58A/U TYPE COAX
8219 010U500	152 MT	6.350 KG	BLACK		RG58A/U TYPE COAX
8219 0101000	305 MT	12.701 KG	BLACK	C	RG58A/U TYPE COAX
8219 010500	152 MT	6.577 KG	BLACK	C	RG58A/U TYPE COAX

Notes:
C = CRATE REEL PUT-UP.

Test Reports

- a) **UL**
 - i) UL Test Reports are available on-line through the UL Client Document Access web portal.
 - ii) UL Inspection Reports are also available through the UL Client Document Access web portal.
 - b) **CSA**
 - i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
 - ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.
- * other test data may be available if requested at time of order.

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