# **Detailed Specifications & Technical Data**

#### **METRIC MEASUREMENT VERSION**



# 8219 Coax - RG-58A/U Type

For more Information please call

1-800-Belden1



#### **General Description:**

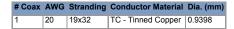
RG-58A/U type, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

1

# **Physical Characteristics (Overall)**

## Conductor

AWG:



Total Number of Conductors:

Insulation

Insulation Material:

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

#### **Outer Shield**

Outer Shield Material:



#### **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
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
EU Directive 2011/65/EU (ROHS II):	Yes
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

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RG Type: 58A/U Flame Test **UL Flame Test:** UL1685 UL Loading Suitability Suitability - Indoor: Yes Plenum/Non-Plenum Plenum (Y/N): No

#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)

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:

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	500 FT	14.000 LB	WHITE		RG58A/U TYPE COAX
8219 0091000	1,000 FT	28.000 LB	WHITE	С	RG58A/U TYPE COAX
8219 010U1000	1,000 FT	27.000 LB	BLACK		RG58A/U TYPE COAX
8219 010U500	500 FT	14.000 LB	BLACK		RG58A/U TYPE COAX
8219 0101000	1,000 FT	28.000 LB	BLACK	С	RG58A/U TYPE COAX
8219 010500	500 FT	14.500 LB	BLACK	С	RG58A/U TYPE COAX

Notes: C = CRATE REEL PUT-UP.

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Revision Number: 2 Revision Date: 07-30-2013

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