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.

Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors:

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

Page 1 of 3 12-30-2012

Detailed Specifications & Technical Data





8219 Coax - RG-58A/U Type

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	
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	

Electrical Characteristics (Overall)

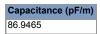
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



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)	

Page 2 of 3 12-30-2012

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



8219 Coax - RG-58A/U Type

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	С	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	С	RG58A/U TYPE COAX
8219 010500	152 MT	6.577 KG	BLACK	С	RG58A/U TYPE COAX

C = CRATE REEL PUT-UP.

Test Reports

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) CŚA

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.

Revision Number: 2 Revision Date: 08-13-2012

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

^{*} other test data may be available if requested at time of order.