BELDEN
SENDING ALL THE RIGHT SIGNALS

Part Number: 8219

54 Ohm, RG58, 20 AWG, CM



Product Description

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

Technical Specifications

Product Overview

Environmental Space:	Outdoor - Aerial

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	19x32	TC - Tinned Copper	0.037 in	1

Conductor Count:	1
Conductor Size:	20 AWG

Insulation

Material	Nominal Diameter
FPE - Foamed Polyethylene	0.116 in

Outer Shield Material

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	95 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.193 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
8.8 Ohm/1000ft	4.1 Ohm/1000ft	4.1 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
26.5 pF/ft

Inductance

Nominal Inductance
0.065 µH/ft

Impedance

Nominal Characteristic Impedance
53.5 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 dB/100ft
10 MHz	1.3 dB/100ft
50 MHz	3.1 dB/100ft
100 MHz	4.5 dB/100ft
200 MHz	6.6 dB/100ft
400 MHz	10 dB/100ft
700 MHz	14.2 dB/100ft
900 MHz	16.6 dB/100ft
1000 MHz	18.1 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.39 ns/ft	73 %

Voltage

UL Voltage Rating
30 V RMS (UL AWM Style 1354), 300 V RMS (UL CM)
300 V RMS (CM)

Temperature Range

UL Temp Rating:	80°C
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	26 lbs/1000ft
Max Recommended Pulling Tension:	50 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	UL Style 1354
CPR Euroclass:	Fca
PMSHA Specification:	SC-182/5
RG Type:	58A/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	30 V RMS (UL AWM Style 1354), 300 V RMS (UL CM)

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	UPC	Length	Footnote
8219 0101000	Black	612825196372	1,000 ft	C
8219 010500	Black	612825196341	500 ft	C
8219 010U1000	Black	612825196358	1,000 ft	
8219 010U500	Black	612825357605	500 ft	
8219 0091000	White	612825196327	1,000 ft	C
8219 009U500	White	612825196365	500 ft	

Footnote:	C - CRATE REEL PUT-UP.

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