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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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
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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

Shielding:	Braid(s)
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Inductance

Nominal Inductance
0.065 μ H/ft

Impedance

Nominal Characteristic Impedance
53.5 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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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
RG / Series 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	Footnote
8219 0101000	Black	C
8219 010500	Black	C
8219 010U1000	Black	
8219 010U500	Black	
8219 0091000	White	C
8219 009U500	White	

Footnote: C - CRATE REEL PUT-UP.

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