

Product: [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

Physical Characteristics (Overall)

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

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	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

Environmental Space:	Outdoor - Aerial
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
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, LSOH, 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
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Part Number

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Variants

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

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.289 Revision Date: 04-28-2020
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