

Product: [9311](#) 

50 Ohm, RG58, 20 AWG, CM



Product Description

RG-58/U type, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, Duobond® II, tinned copper braid shield (55% 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
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Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.114 in

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		55%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.193 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
8.8 Ohm/1000ft	8.8 Ohm/1000ft	17 Ohm/1000ft	17 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
26 pF/ft

Inductance

Nominal Inductance
0.065 µH/ft

Impedance

Nominal Characteristic Impedance
52 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.5 dB/100ft

10 MHz	1.5 dB/100ft
50 MHz	2.9 dB/100ft
100 MHz	4 dB/100ft
200 MHz	5.7 dB/100ft
400 MHz	8.5 dB/100ft
700 MHz	12.2 dB/100ft
900 MHz	14.5 dB/100ft
1000 MHz	15.8 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.36 ns/ft	75%

Voltage

UL Voltage Rating	Voltage Rating [V]
300 V RMS	30 V RMS
30 V RMS (UL AWM Style 1354)	

Electrical Characteristics Notes:	300 V RMS (CM) 30 V RMS (UL AWM Style 1354)
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Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	21 lbs/1000ft
Min. Bend Radius/Minor Axis:	2 in

Standards

NEC/(UL) Compliance:	CM
CEC/C(UL) Compliance:	CM
UL AWM Style Compliance:	UL Style 1354 (30 V 80°C)
RG Type:	58

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
9311 010500	Black	Reel	500 ft	612825227847
9311 0101000	Black	Reel	1,000 ft	612825227861
9311 010U1000	Black	UnReel	1,000 ft	612825415213

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.381 Revision Date: 12-15-2021
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