

Part Number: 9310

50 Ohm, RG58, 20 AWG



Product Description

RG-58/U type, 20 AWG solid .033" bare copper conductor, polyethylene insulation, Duobond® II + tinned copper braid shield (55% coverage), PVC jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.033 in	1

Conductor Count:	1
Conductor Size:	20 AWG

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.114 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Bonded Duofoil®	100 %
Braid	2	TC - Tinned Copper		55 %

Outer Jacket Material

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
9.4 Ohm/1000ft	9.4 Ohm/1000ft	8 Ohm/1000ft	8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
30.8 pF/ft

Inductance

Nominal Inductance
0.09 µH/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.46 dB/100ft
10 MHz	1.4 dB/100ft
50 MHz	2.8 dB/100ft
100 MHz	3.8 dB/100ft
200 MHz	5.4 dB/100ft
400 MHz	7.9 dB/100ft
700 MHz	11.1 dB/100ft
900 MHz	12.8 dB/100ft
1000 MHz	13.9 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

Voltage

Non-UL Voltage Rating	UL Voltage Rating
1400 V RMS	30 V RMS

Temperature Range

UL Temp Rating:	60°C
Operating Temp Range:	-40°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	20 lbs/1000ft
Max Recommended Pulling Tension:	12.4 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

UL AWM Style:	UL Style 1354 (30 V 60°C)
CPR Euroclass:	Eca
RG Type:	58/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
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 - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LS0H, Toxicity Testing

UL voltage rating:	30 V RMS
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Footnote
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9310 0101000	Black	C
9310 010500	Black	C
9310 010U1000	Black	

Footnote:	C - CRATE REEL PUT-UP.
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