Product: 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

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	1

Insulation

Material	Nominal Diameter
PE - Polyethylene	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
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 Temperature Rating:	60°C
Operating Temperature Range:	-40°C To +60°C

Mechanical Characteristics

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

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
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
Suitability - Outdoor:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
UL voltage rating:	30 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
9310 010500	Black	Reel	500 ft	612825227793
9310 0101000	Black	Reel	1,000 ft	612825227816
9310 010U1000	Black	UnReel	1,000 ft	612825227854

Footnote:	C - CRATE REEL PUT-UP.

History

Update and Revision:	Revision Number: 0.459 Revision Date: 02-03-2025

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