



Product: [9203](#)



50 Ohm Coax, RG58, 20 AWG Stranded TC, TC Braid, Non-contaminating PVC Jacket

Product Description

RG-58/U, 20 AWG stranded (19x33) .035" tinned copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), non-contaminating PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Stranded	TC - Tinned Copper	0.035 in	1

Conductor Count: 1

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.116 in

Outer Shield

Type	Material	Coverage [%]
Braid	Tinned Copper (TC)	95%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride (Non-Contaminating)	0.195 in

Electrical Characteristics

Conductor DCR			
Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR
10.8 Ohm/1000ft	10.8 Ohm/1000ft		4.1 Ohm/1000ft
			Outer Conductor DCR
			4.1 Ohm/1000ft
Capacitance			
Nom. Capacitance Conductor to Shield			
30.8 pF/ft			
Inductance			
Nominal Inductance			
0.077 µH/ft			
Impedance			
Nominal Characteristic Impedance			
50 Ohm			
High Frequency (Nominal/Typical)			
Frequency [MHz]	Nom. Insertion Loss		
1 MHz	0.4 dB/100ft		
10 MHz	1.4 dB/100ft		

50 MHz	3.3 dB/100ft
100 MHz	4.9 dB/100ft
200 MHz	7.3 dB/100ft
400 MHz	11.5 dB/100ft
700 MHz	17 dB/100ft
900 MHz	20 dB/100ft
1000 MHz	21.5 dB/100ft

Delay

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

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
50 MHz	4 dB/100ft
100 MHz	6.5 dB/100ft
400 MHz	17 dB/100ft
1000 MHz	28 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]
50 MHz	300 W
100 MHz	200 W
400 MHz	90 W
1,000 MHz	55 W

Voltage

Non-UL Voltage Rating
1400 V RMS

Temperature Range

UL Temp Rating:	85°C
Operating Temperature Range:	-40°C To +85°C

Mechanical Characteristics

Bulk Cable Weight:	25 lbs/1000ft
Max. Pull Tension:	42 lbs
Min. Bend Radius/Minor Axis:	2 in

Standards

CPR Euroclass:	Fca
RG Type:	58
Military Compliance:	MIL-DTL-17, M17/28, QPL

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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Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
9203 010500	Black	Reel	500 ft	612825225249
9203 0101000	Black	Reel	1,000 ft	612825225232

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.345 Revision Date: 04-29-2024
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