

**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
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#### Insulation

Material	Nominal Diameter
PE - Polyethylene	0.116 in

#### Outer Shield Material

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

#### Outer Jacket Material

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	Outer Conductor DCR
10.8 Ohm/1000ft	10.8 Ohm/1000ft		4.1 Ohm/1000ft	4.1 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
30.8 pF/ft

#### Inductance

Nominal Inductance
0.077 $\mu$ H/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 Freq

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 Temp 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/U Type
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 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):	2005-10-01
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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## Part Number

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### Variants

Item #	Color	Putup 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

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Update and Revision:	Revision Number: 0.253 Revision Date: 04-28-2020
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