

Part Number: 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

Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)
----------------------	------------------------------

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 Material

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	95 %

Outer Jacket Material

Material	Nominal Diameter
PVCNC - 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 μ 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 Recommended Pulling Tension:	42 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

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

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):	2005-10-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
-----------------------	-----

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Part Number

Variants

Item #	Color	UPC	Length	Footnote
9203 0101000	Black	612825225232	1,000 ft	
9203 010500	Black	612825225249	500 ft	C

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

History

Update and Revision:	Revision Number: 0.244 Revision Date: 08-22-2019
----------------------	--

© 2019 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.