

Product: [8259](#)


50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Str TC, 95% TC Braid, PVC Jkt

Product Description

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG (19x33) Tinned Copper Conductor, PE Insulation, 95% Tinned Copper Braid Shield, PVC Jacket

Technical Specifications
Product Overview

Suitable Applications:	Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)
------------------------	--

Construction Details

RG Type:	58
----------	----

Conductor

Size	Stranding	Nom. Diameter	Material
20 AWG	19x33	0.035 in	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.117 in (2.97 mm)	White

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	95%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.193 in (4.90 mm)

Overall Cable Diameter (Nominal):	0.193 in (4.90 mm)
-----------------------------------	--------------------

Electrical Characteristics
Attenuation

Frequency	Nom. Attenuation
1 MHz	0.4 dB/100ft
10 MHz	1.5 dB/100ft
50 MHz	3.7 dB/100ft
100 MHz	5.4 dB/100ft
200 MHz	8.1 dB/100ft
400 MHz	12.4 dB/100ft
700 MHz	17.7 dB/100ft
900 MHz	21.1 dB/100ft
1000 MHz	22.8 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
9.7 Ohm/1000ft (32 Ohm/km)	3.8 Ohm/1000ft (12 Ohm/km)	30.8 pF/ft (101 pF/m)	50 Ohm	66%

Voltage

Voltage Rating

1900 V

Mechanical Characteristics

Temperature

Operating

-30°C to +75°C

Bend Radius

Installation Min.

1.9 in (48 mm)

Max. Pull Tension:	42 lbs (19 kg)
Bulk Cable Weight:	25 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.532 Revision Date: 09-07-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8259 010100	Black	Reel	100 ft	612825197379	
8259 010500	Black	Reel	500 ft	612825197393	C
8259 010U500	Black	UnReel	500 ft	612825357636	
8259 0101000	Black	Reel	1,000 ft	612825197386	C
8259 010U1000	Black	UnReel	1,000 ft	612825197355	
8259 0105000	Black	Reel	5,000 ft	612825197348	C

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

© 2025 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 "AS IS" 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.