BELDEN

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
PE - Polyethylene	0.117 in (2.97 mm)

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

Max. Pull Tension:	39 lbs (18 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
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.357 Revision Date: 04-08-2022

Part Numbers

Variants

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