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# Product: <u>8219</u> ☑

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

# **Product Description**

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG (19x32) Tinned Copper Conductor, PE Insulation, 95% Tinned Copper Braid Shield, PVC Jacket, CM

# **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	
SizeStrandingNom. Dia20 AWG19x320.037 in	ameter Material TC - Tinned Copper
Insulation	
MaterialNonPE - Polyethylene (Foam)0.11	Insulation Diameter Color Code   6 in (2.95 mm) White
Outer Shield	
Outer Shield Type     Mate       Braid     Tinned Cop	rialCoverageopper (TC)95%
Outer Jacket	
Material     Non       PVC - Polyvinyl Chloride     0.193	n. Diameter in (4.90 mm)
Overall Cable Diameter (Nominal):	0.193 in (4.90 mm)
Electrical Characteristic	CS

#### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.4 dB/100ft
10 MHz	1.3 dB/100ft
50 MHz	3.1 dB/100ft
100 MHz	4.5 dB/100ft
200 MHz	6.6 dB/100ft
400 MHz	10.0 dB/100ft
700 MHz	14.2 dB/100ft
900 MHz	16.6 dB/100ft
1000 MHz	18.1 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
8.8 Ohm/1000ft	4.1 Ohm/1000ft (13 Ohm/km)	26.0 pF/ft (85.3 pF/m)	54 Ohm	76%

# UL Voltage Rating

300 V (CM), 30 V (UL AWM 1354)

## **Mechanical Characteristics**

#### Temperature

UL Temperature	Operating	
80°C	-40°C to +80°C	

#### Bend Radius

Installation Min. 1.9 in (48 mm)	
Max. Pull Tension:	50 lbs (23 kg)
Bulk Cable Weight:	26 lbs/1000ft

# **Standards and Compliance**

Environmental Suitability:	Outdoor - Aerial, Indoor, Outdoor, UV Resistance, Aerial - When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading, UN ECE R118.02
NEC / UL Compliance:	CM
AWM Compliance:	AWM 1354
CEC / C(UL) Compliance:	CM
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)
Other Standard Compliance(s):	P-MSHA-SC-182/5

### History

Update and Revision:
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Revision Number: 0.531 Revision Date: 04-13-2023

## **Part Numbers**

#### Variants

ltem #	Color	Putup Type	Length	UPC	Footnote
8219 010500	Black	Reel	500 ft	612825196341	С
8219 010U500	Black	UnReel	500 ft	612825357605	
8219 0101000	Black	Reel	1,000 ft	612825196372	С
8219 010U1000	Black	UnReel	1,000 ft	612825196358	
8219 009U500	White	UnReel	500 ft	612825196365	
8219 0091000	White	Reel	1,000 ft	612825196327	С

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