Belden

Product: 9311



50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Str TC, 55% TC Braid, PVC Jkt, PVC Jkt

Product Description

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG (19x32) Tinned Copper Conductor, PE Insulation, Duobond® Foil + 55% 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

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	20 AWG	19x32	0.037 in	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.116 in (2.95 mm)	White

Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		55%

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	0.5 dB/100ft
10 MHz	1.5 dB/100ft
50 MHz	2.9 dB/100ft
100 MHz	4 dB/100ft
200 MHz	5.7 dB/100ft
400 MHz	8.5 dB/100ft
700 MHz	12.2 dB/100ft
900 MHz	14.5 dB/100ft
1000 MHz	15.8 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 (29 Ohm/km)	17 Ohm/1000ft (56 Ohm/km)	26 pF/ft (85 pF/m)	52 Ohm	75%

Voltage

UL Voltage Rating
300 V RMS, 30 V RMS

Electrical Characteristics Notes:	300 V RMS (CM) 30 V RMS (UL AWM Style 1354

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
1.93 in (49.0 mm)	1.93 in (49.0 mm)

Max. Pull Tension:	55 lbs (25 kg)
Bulk Cable Weight:	21 lbs/1000ft (31 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 1354 (30 V 80°C)
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), 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: 0.634 Revision Date: 04-02-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
9311 010500	Black	Reel	500 ft	612825227847	C
9311 0101000	Black	Reel	1,000 ft	612825227861	C
9311 010U1000	Black	UnReel	1,000 ft	612825415213	

Footnote:	C - CRATE REEL PUT-UP.

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