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)	0.114 in (2.90 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 (UL AWM Style 1354)

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.
2 in (51 mm)	2 in (51 mm)

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

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)

Product Notes

Notes:	//(1)# Elements@Conductor1:-In Stibo it was Blank and now changed to 1. (2)Size@Conductor1 :-In Stibo it was 20 now changed to 20AWG (3)Insulation Diameter (Nominal)- In Stibo it was 0.114 in Now Changed to 0.116 in (4)Color@Color Chart1 01 :- In stibo it was Blank now Changed to White (5)Material@OuterShield1 1 - In stibo it is Tri-Laminate (Alum+Poly+Alum) But in BPCS (EAA+ Alum+ Poly+Alum) (6)Nominal Diameter@ Outer Jacket 2- In Stibo it was 0.25 in Now Changed to Blank (7)Cable Diameter (Nominal)- In Stibo it was Blank Now Changed to 0.193 in

History

Update and Revision:	Revision Number: 0.498 Revision Date: 02-03-2025

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	

© 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 "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.