



Product: [8237](#)

50 Ohm Wireless Transmission Coax, RG-8, 13 AWG Str BC, 95% BC Braid, PVC Jkt, CMH

Product Description

50 Ohm Wireless Transmission Coax, RG-8, 13 AWG (7x21) Bare Copper Conductor , PE Insulation, 95% Bare Copper Braid Shield, PVC Jacket, CMH

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:	8
----------	---

Conductor

AWG	Stranding	Nom. Diameter	Material
13	7x21	0.085 in	BC - Bare Copper

Insulation

Material	Nom. Diameter
PE - Polyethylene	0.285 in

Outer Shield Material

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	95%

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.403 in

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	0.2 dB/100ft
10 MHz	0.6 dB/100ft
50 MHz	1.3 dB/100ft
100 MHz	1.9 dB/100ft
200 MHz	2.8 dB/100ft
400 MHz	4.2 dB/100ft
700 MHz	5.9 dB/100ft
900 MHz	6.9 dB/100ft
1000 MHz	7.4 dB/100ft
4000 MHz	23.2 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]
50 MHz	1,200 W
100 MHz	800 W

400 MHz	320 W
1,000 MHz	180 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance	Nom. Velocity
1.8 Ohm/1000ft	1.2 Ohm/1000ft	30.8 pF/ft	50 Ohm	66%

Voltage

UL Voltage Rating	Non-UL Voltage Rating
300 V (CMH)	3700 V

Mechanical Characteristics

Temperature

UL Rating	Operating
75°C	-30°C to +75°C

Bend Radius

Installation Min.
4.0 in

Bulk Cable Weight:	102 lbs/1000ft
Max. Pull Tension:	147 lbs

Standards and Compliance

Environmental Suitability:	Outdoor - Aerial, Indoor
Sustainability:	CA Prop 65
NEC / UL Compliance:	CMX
CEC / C(UL) Compliance:	CMH
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.343 Revision Date: 02-16-2021
----------------------	--

© 2021 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.