



**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

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

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.285 in (7.24 mm)	White

#### Outer Shield

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

#### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.403 in (10.2 mm)

Overall Cable Diameter (Nominal):	0.403 in (10.2 mm)
-----------------------------------	--------------------

#### Electrical Characteristics

##### Attenuation

Frequency	Nom. Attenuation
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	Max. Power Rating
-----------	-------------------

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. Characteristic Impedance	Nom. Velocity of Prop.
1.8 Ohm/1000ft	1.2 Ohm/1000ft (3.9 Ohm/km)	30.8 pF/ft (101 pF/m)	50 Ohm	66%

#### Voltage

UL Voltage Rating
300 V (CMH)

## Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C	-40°C to +75°C

#### Bend Radius

Installation Min.
4.5 in (110 mm)

Max. Pull Tension:	190 lbs (86 kg)
Bulk Cable Weight:	102 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Outdoor - Aerial, Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMX
CEC / C(UL) Compliance:	CMH
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.530 Revision Date: 04-13-2023
----------------------	--

## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8237 010100	Black	Reel	100 ft	612825196693	C
8237 010500	Black	Reel	500 ft	612825355625	C
8237 0101000	Black	Reel	1,000 ft	612825196709	C

© 2024 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.