Belden



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: 0.533 Revision Date: 09-07-2025

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

Footnote:	C - CRATE REEL PUT-UP.

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