

Part Number: 8237

50 Ohm, RG8, 13 AWG, CMH



Product Description

RG-8/U type, 13 AWG stranded (7x21) .085" bare copper conductor, polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

Technical Specifications

Product Overview

Environmental Space:	Outdoor - Aerial
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
13	7x21	BC - Bare Copper	0.085 in	1

Conductor Count:	1
Conductor Size:	13 AWG

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.285 in

Outer Shield Material

Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.403 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
1.9 Ohm/1000ft	1.2 Ohm/1000ft	1.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
28.5 pF/ft

Inductance

Nominal Inductance
0.079 μ H/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

Power Rating

Frequency [MHz]	Max. Power Rating [W]	Nominal Power Rating [W]
50 MHz	1,200 W	1,200 W
100 MHz	800 W	800 W
400 MHz	320 W	320 W
1,000 MHz	180 W	180 W

Voltage

Non-UL Voltage Rating
3700 V RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	102 lbs/1000ft
Max Recommended Pulling Tension:	190 lbs
Min Bend Radius/Minor Axis:	4.25 in

Standards

NEC/(UL) Specification:	CMH
CEC/C(UL) Specification:	CMH
CPR Euroclass:	Eca
RG Type:	8/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

Plenum/Non-Plenum

Plenum (Y/N): No

Part Number

Variants

Item #	Color	Footnote
8237 010100	Black	C
8237 0101000	Black	C
8237 010500	Black	C

Footnote: C - CRATE REEL PUT-UP.

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