

Product: 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

Physical Characteristics (Overall) Conductor Nominal Diameter No. of Coax BC - Bare Copper 0.085 in 7x21 1 Conductor Count: Insulation PE - Polyethylene 0.285 in **Outer Shield Material** Material Braid BC - Bare Copper 95 % Outer Jacket Material 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 0.079 µH/ft

High Frequency (Nominal/Typical)

Nominal Characteristic Impedance

Impedance

50 Ohm

| 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: | СМН |
|--------------------------|----------|
| CEC/C(UL) Specification: | СМН |
| CPR Euroclass: | Eca |
| RG Type: | 8/U Type |

Applicable Environmental and Other Programs

| Environmental Space: | Outdoor - Aerial |
|---------------------------------------|-------------------------------|
| 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 |
| 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 |

Flammability, LS0H, Toxicity Testing

| ISO/IEC Flammability: | IEC 60332-1-2 |
|-----------------------|---------------|

Plenum/Non-Plenum

| Plenum (Y/N): | No |
|------------------|----|
| 1 1011am (1711). | |

Part Number

Variants

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

Footnote:

C - CRATE REEL PUT-UP

History

Update and Revision:

Revision Number: 0.283 Revision Date: 04-28-2020

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