




Product: [8267](#) 

50 Ohm, RG213, 13 AWG Stranded BC, BC Braid, Non-contaminating PVC Jacket, Commercial Non-QPL Product

Product Description

RG-213/U, 13 AWG stranded (7x21) .089" bare copper conductor, polyethylene insulation, bare copper braid shield (96% coverage), non-contaminating PVC jacket, commercial non-QPL product

Technical Specifications

Product Overview

|                      |                              |
|----------------------|------------------------------|
| Environmental Space: | Indoor (Not Riser or Plenum) |
|----------------------|------------------------------|

Physical Characteristics (Overall)

| Conductor        |           |                  |                  |             |
|------------------|-----------|------------------|------------------|-------------|
| AWG              | Stranding | Material         | Nominal Diameter | No. of Coax |
| 13               | Stranded  | BC - Bare Copper | 0.089 in         | 1           |
| Conductor Count: |           |                  | 1                |             |

| Insulation        |                  |
|-------------------|------------------|
| Material          | Nominal Diameter |
| PE - Polyethylene | 0.285 in         |

| Outer Shield Material |                  |              |
|-----------------------|------------------|--------------|
| Type                  | Material         | Coverage [%] |
| Braid                 | BC - Bare Copper | 96 %         |

| Outer Jacket Material                        |                  |
|--|------------------|
| Material                                     | Nominal Diameter |
| PVCNC - Polyvinyl Chloride Non-Contaminating | 0.405 in         |

Electrical Characteristics

| Conductor DCR         |                          |                     |
|-----------------------|--------------------------|---------------------|
| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
| 1.7 Ohm/1000ft        | 1.2 Ohm/1000ft           | 1.2 Ohm/1000ft      |

| Capacitance                          |
|--------------------------------------|
| Nom. Capacitance Conductor to Shield |
| 30.8 pF/ft                           |

| Inductance         |
|--------------------|
| Nominal Inductance |
| 0.077 µH/ft        |

| Impedance                        |
|----------------------------------|
| Nominal Characteristic Impedance |
| 50 Ohm                           |

| High Frequency (Nominal/Typical) |                     |
|----------------------------------|---------------------|
| Frequency [MHz]                  | Nom. Insertion Loss |

|          |               |
|----------|---------------|
| 1 MHz    | 0.27 dB/100ft |
| 10 MHz   | 0.55 dB/100ft |
| 50 MHz   | 1.3 dB/100ft  |
| 100 MHz  | 1.9 dB/100ft  |
| 200 MHz  | 2.7 dB/100ft  |
| 400 MHz  | 4.1 dB/100ft  |
| 700 MHz  | 6.5 dB/100ft  |
| 900 MHz  | 7.6 dB/100ft  |
| 1000 MHz | 8.0 dB/100ft  |
| 4000 MHz | 21.5 dB/100ft |

Delay

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

Power Rating

| Frequency [MHz] | Max. Power Rating [W] |
|-----------------|-----------------------|
| 1 MHz           | 7,950 W               |
| 10 MHz          | 2,761 W               |
| 50 MHz          | 1,122 W               |
| 100 MHz         | 748 W                 |
| 200 MHz         | 494 W                 |
| 400 MHz         | 326 W                 |
| 700 MHz         | 235 W                 |
| 900 MHz         | 205 W                 |
| 1,000 MHz       | 194 W                 |
| 4,000 MHz       | 110 W                 |

Voltage

| Non-UL Voltage Rating | UL Description    | UL Voltage Rating            |
|-----------------------|-------------------|------------------------------|
| 3700 V RMS (MIL-Spec) | UL AWM Style 1354 | 30 V RMS (UL AWM style 1354) |
|                       | NEC               | 300 V RMS                    |

Temperature Range

|                       |                          |
|-----------------------|--------------------------|
| UL Temp Rating:       | 60°C (UL AWM Style 1354) |
| Operating Temp Range: | -40°C To +60°C           |

Mechanical Characteristics

|                                  |                  |
|----------------------------------|------------------|
| UV Resistance:                   | Yes - Black only |
| Bulk Cable Weight:               | 104 lbs/1000ft   |
| Max Recommended Pulling Tension: | 184 lbs          |
| Min Bend Radius/Minor Axis:      | 5 in             |

Standards

|                             |   |
|-----------------------------|---|
| NEC/(UL) Specification:     | CMX   |
| CEC/C(UL) Specification:    | CMX   |
| UL AWM Style:               | UL Style 1354 (30 V 60°C)                   |
| CPR Euroclass:              | Eca   |
| RG Type:                    | 213/U Type                                  |
| Military Specification:     | Commercial, non-QPL product (M17/163-00001) |
| QPL (Qualified Parts List): | No  |

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 2015/863/EU:          | Yes                           |
| EU Directive Compliance:           | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                        | Yes                           |

|                                       |            |
|---------------------------------------|------------|
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-01 |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |
| MIL 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

|                       |                              |
|-----------------------|------------------------------|
| UL Flammability:      | VW-1                         |
| ISO/IEC Flammability: | IEC 60332-1-2                |
| UL voltage rating:    | 30 V RMS (UL AWM style 1354) |

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item #       | Color | UPC          | Length   | Footnote |
|--------------|-------|--------------|----------|----------|
| 8267 0101000 | Black | 612825428411 | 1,000 ft | C        |
| 8267 010500  | Black | 612825197539 | 500 ft   | C        |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

Product Notes

|        |                                  |
|--------|----------------------------------|
| Notes: | Non-SWR swept version of RG-213. |
|--------|----------------------------------|

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.281 Revision Date: 08-22-2019 |
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