



**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**

**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 |
|----------------------------------------------|------------------|
| PVC - 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 $\mu$ H/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

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

|                             |     |
|-----------------------------|-----|
| 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, LSOH, 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 | Putup Type | Length   | UPC          |
|--------------|-------|------------|----------|--------------|
| 8267 010500  | Black | Reel       | 500 ft   | 612825197539 |
| 8267 0101000 | Black | Reel       | 1,000 ft | 612825428411 |

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

## Product Notes

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

## History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.290 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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