



**Product:** [8233](#)

Video Triax, RG11, #14 Solid

## Product Description

14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, bare copper double shields (95% and 80% coverage), polyethylene jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material         | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 14  | Solid     | BC - Bare Copper | 0.064 in         | 1           |

|                  |   |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

#### Insulation

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.285 in         |

|              |              |
|--------------|--------------|
| Table Notes: | Gas Injected |
|--------------|--------------|

#### Inner Shield

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

#### Inner Jacket

| Material          | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.365 in         |

#### Outer Shield

| Type  | Material         | Coverage [%] |
|-------|------------------|--------------|
| Braid | Bare Copper (BC) | 80%          |

#### Outer Jacket

| Material          | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.475 in         |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Inner Shield DCR | Nominal Outer Shield DCR |
|-----------------------|-----------------------|----------------------|--------------------------|--------------------------|
| 2.6 Ohm/1000ft        | 2.6 Ohm/1000ft        |                      | 1.7 Ohm/1000ft           | 1.5 Ohm/1000ft           |

#### Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.1 pF/ft                           |

#### Inductance

| Nominal Inductance |
|--------------------|
| 0.097 $\mu$ H/ft   |

## Impedance

### Nominal Characteristic Impedance

75 Ohm

## Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 5-850 MHz       | 21 dB               |
| 850-4500 MHz    | 15 dB               |

## High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.14 dB/100ft       |
| 3.6 MHz         | 0.3 dB/100ft        |
| 10 MHz          | 0.4 dB/100ft        |
| 71.5 MHz        | 1.1 dB/100ft        |
| 135 MHz         | 1.6 dB/100ft        |
| 270 MHz         | 2.3 dB/100ft        |
| 360 MHz         | 2.6 dB/100ft        |
| 540 MHz         | 3.3 dB/100ft        |
| 720 MHz         | 3.8 dB/100ft        |
| 750 MHz         | 4 dB/100ft          |
| 1000 MHz        | 4.6 dB/100ft        |
| 1500 MHz        | 5.9 dB/100ft        |
| 2250 MHz        | 7.4 dB/100ft        |
| 3000 MHz        | 9 dB/100ft          |
| 4500 MHz        | 12.5 dB/100ft       |

## Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.2 ns/ft     | 84%                                      |

## Voltage

### Non-UL Voltage Rating

300 V RMS

## Temperature Range

|                              |                |
|------------------------------|----------------|
| Non-UL Temp Rating:          | 80°C           |
| Operating Temperature Range: | -55°C To +80°C |

## Mechanical Characteristics

|                              |                |
|------------------------------|----------------|
| Bulk Cable Weight:           | 112 lbs/1000ft |
| Max. Pull Tension:           | 170 lbs        |
| Min. Bend Radius/Minor Axis: | 5 in           |

## Standards

|          |    |
|----------|----|
| RG Type: | 11 |
|----------|----|

## Applicable Environmental and Other Programs

|  |                               |
|--|-------------------------------|
| Environmental Space:                         | Indoor/Outdoor                |
| EU Directive 2000/53/EC (ELV):               | Yes                           |
| EU Directive 2011/65/EU (RoHS 2):            | Yes                           |
| EU Directive 2012/19/EU (WEEE):              | Yes                           |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes                           |
| EU Directive Compliance:                     | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                                  | No                            |
| MII Order #39 (China RoHS):                  | Yes                           |

## Suitability

|                       |  |
|-----------------------|--|
| Suitability - Aerial: | Yes - When supported by messenger wire |
| Suitability - Indoor: | Yes                                    |

|                        |     |
|------------------------|-----|
| Suitability - Outdoor: | Yes |
|------------------------|-----|

## Plenum/Non-Plenum

|                |       |
|----------------|-------|
| Plenum (Y/N):  | No    |
| Plenum Number: | 8233P |

## Related Part Numbers

### Variants

| Item #       | Color | Put-Up Type | Length   | UPC          |
|--------------|-------|-------------|----------|--------------|
| 8233 010500  | Black | Reel        | 500 ft   | 612825358053 |
| 8233 0101000 | Black | Reel        | 1,000 ft | 612825355656 |
| 8233 0102000 | Black | Reel        | 2,000 ft | 612825434153 |
| 8233 0104000 | Black | Reel        | 4,000 ft | 612825355700 |

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

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.339 Revision Date: 02-03-2025 |
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