



# Product: <u>8233</u>

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)**

| Condu        |   |                              |                  |            |  |
|--------------|---|------------------------------|------------------|------------|--|
| AWG          | Stranding<br>Solid  | Material<br>BC - Bare Copper | Nominal Diameter | No. of Coa |  |
|              | uctor Count:  | Bo - Bare Copper             | 0.004 11         | 1          |  |
|              |   |                              |                  | 1          |  |
| Insulat      |   |                              |                  |            |  |
| PE - F       | Material         Nominal Diameter           PE - Polyethylene (Foam)         0.285 in |                              |                  |            |  |
|              | Notes:  | 0.200 11                     |                  | Ga         |  |
|              |   |                              |                  | 02         |  |
| Inner S      |   |                              |                  |            |  |
| Type         |   |                              | .%]              |            |  |
| Draiu        | Braid Bare Copper (BC) 95%  |                              |                  |            |  |
| -            | Inner Jacket  |                              |                  |            |  |
|              | Material Nominal Diameter   |                              |                  |            |  |
| PE - F       | PE - Polyethylene 0.365 in  |                              |                  |            |  |
| Outer Shield |   |                              |                  |            |  |
|              | Type Material Coverage [%]  |                              |                  |            |  |
| Braid        | Braid Bare Copper (BC) 80%  |                              |                  |            |  |
| Outer Jacket |   |                              |                  |            |  |
| IV           | Material Nominal Diameter   |                              |                  |            |  |
| PE - F       | PE - Polyethylene 0.475 in  |                              |                  |            |  |
| Elect        | rical Cha   | racteristics                 |                  |            |  |
|              |   |                              |                  |            |  |

## Conductor DCR

| Nominal Conductor<br>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

| Nomir | al Inductan |
|-------|-------------|
| 0.097 | uH/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

| ١ | Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---|---------------|--|
| 1 | 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**

|       |                |                       | UPC                                |
|-------|----------------|-----------------------|------------------------------------|
| Black | Reel           | 500 ft                | 612825358053                       |
| Black | Reel           | 1,000 ft              | 612825355656                       |
| Black | Reel           | 2,000 ft              | 612825434153                       |
| Black | Reel           | 4,000 ft              | 612825355700                       |
|       | Black<br>Black | Black Reel Black Reel | BlackReel1,000 ftBlackReel2,000 ft |

#### **History**

Update and Revision:

Revision Number: 0.339 Revision Date: 02-03-2025

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