



Product: [8232](#)

Video Triax, RG59, #20 Solid

Product Description

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shields (95% and 80% coverage), polyethylene jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 20 | Solid | BC - Bare Copper | 0.032 in | 1 |

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

Insulation

| Material | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.145 in |

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

Inner Shield

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

Inner Jacket

| Material | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.225 in |

Outer Shield

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

Outer Jacket

| Material | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.315 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Inner Shield DCR | Nominal Outer Shield DCR |
|-----------------------|-----------------------|----------------------|--------------------------|--------------------------|
| 10 Ohm/1000ft | 10 Ohm/1000ft | | 2.5 Ohm/1000ft | 2.8 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.2 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.097 μ H/ft |

Impedance

Nominal Characteristic Impedance

75 Ohm

Return Loss

| Frequency [MHz] | Min. Structural Return Loss (SRL) |
|-----------------|-----------------------------------|
| 5-850 MHz | 21 dB |
| 850-3000 MHz | 15 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.3 dB/100ft |
| 3.6 MHz | 0.6 dB/100ft |
| 10 MHz | 0.9 dB/100ft |
| 71.5 MHz | 2.1 dB/100ft |
| 135 MHz | 3 dB/100ft |
| 270 MHz | 4.2 dB/100ft |
| 360 MHz | 4.8 dB/100ft |
| 540 MHz | 5.9 dB/100ft |
| 720 MHz | 7 dB/100ft |
| 750 MHz | 7.1 dB/100ft |
| 1000 MHz | 8.3 dB/100ft |
| 1500 MHz | 10.5 dB/100ft |
| 2250 MHz | 13.4 dB/100ft |
| 3000 MHz | 15.9 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.22 ns/ft | 83% |

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: | 55 lbs/1000ft |
| Maximum Recommended Pulling Tension: | 125 lbs |
| Minimum Minor Axis Bend Radius: | 3.25 in |

Standards

| | |
|----------|----|
| RG Type: | 59 |
|----------|----|

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 - Burial: | Yes |
| Suitability - Indoor: | Yes |

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

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 88232 |

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|--------------|-------|-------------|----------|--------------|
| 8232 010500 | Black | Reel | 500 ft | 612825355663 |
| 8232 0101000 | Black | Reel | 1,000 ft | 612825355687 |
| 8232 0102000 | Black | Reel | 2,000 ft | 612825355670 |

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

History

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| Update and Revision: | Revision Number: 0.334 Revision Date: 02-20-2026 |
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