



## 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%

#### 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 $\mu$ 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
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## 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**

Update and Revision:

Revision Number: 0.333 Revision Date: 02-03-2025

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