



Product: [8232A](#)

Video Triax, RG59, #20 Solid, CMR/CMG



## Product Description

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

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.145 in

Table Notes:	Gas Injected
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#### Inner Shield

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

#### Inner Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.225 in

#### Outer Shield

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

#### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	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 $\mu$ H/ft

## Impedance

Nominal Characteristic Impedance
75 Ohm

## Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5-850 MHz	21 dB
850-4500 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%

## High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
400 MHz	6.9 dB/100ft

## Voltage

UL Voltage Rating
300 V RMS

## Temperature Range

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temperature Range:	-40°C To +75°C

## Mechanical Characteristics

Bulk Cable Weight:	63 lbs/1000ft
Max. Pull Tension:	125 lbs
Min. Bend Radius/Minor Axis:	3.25 in

## Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
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
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## Suitability

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

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

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

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
8232A 0101000	Black	Reel	1,000 ft	612825438267
8232A 0102500	Black	Reel	2,500 ft	612825355588

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.335 Revision Date: 04-29-2024
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