

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

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	0.145 in
Insulation, Table Note:	
Gas Injected	

Inner Shield Material		
Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

Inner Jacket Material	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.225 in

Outer Shield Material		
Type	Material	Coverage [%]
Braid	BC - Bare Copper	80 %

Outer Jacket Material	
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 µH/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 Freq

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 Temp Range:	-40°C To +75°C

Mechanical Characteristics

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

Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
RG Type:	59/U Type

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No

EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MIL Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Putup 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: 0.237 Revision Date: 04-28-2020
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