


Product: [88232](#) 

Video Triax, RG59, #20 Solid, CMP



Product Description

20 AWG solid .032" bare copper conductor, plenum, foam FEP insulation, bare copper braid shields (95% coverage), FEP 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:

Insulation

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.14 in

Inner Shield Material

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

Inner Jacket Material

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	0.188 in

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	0.245 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		2.6 Ohm/1000ft	2.6 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.9 pF/ft

Inductance

Nominal Inductance
0.097 µH/ft

Impedance

Nominal Characteristic Impedance

75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5-850 MHz	21 dB
850-3000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 dB/100ft
3.6 MHz	0.6 dB/100ft
10 MHz	0.8 dB/100ft
71.5 MHz	2.2 dB/100ft
135 MHz	3.1 dB/100ft
270 MHz	4.5 dB/100ft
360 MHz	5.3 dB/100ft
540 MHz	6.6 dB/100ft
720 MHz	7.7 dB/100ft
750 MHz	7.9 dB/100ft
1000 MHz	9.4 dB/100ft
1500 MHz	12.1 dB/100ft
2250 MHz	15.6 dB/100ft
3000 MHz	18.7 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.27 ns/ft	80%

Voltage**UL Voltage Rating**

300 V RMS

Temperature Range

Non-UL Temp Rating:	200°C
UL Temp Rating:	200°C
Operating Temp Range:	-40°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	58 lbs/1000ft
Max. Pull Tension:	106 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
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):	2005-04-01
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	8232A
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Variants

Item #	Color	Putup Type	Length	UPC
88232 010500	Black	Reel	500 ft	612825216902
88232 0101000	Black	Reel	1,000 ft	612825216889

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.259 Revision Date: 04-28-2020
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