



Product: [8212](#)

Analog Video, RG59, #20 Solid BCCS, 95% BC Braid, PE Jacket

Product Description
20 AWG solid .032" bare copper-covered steel conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), polyethylene jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BCCS - Bare Copper Covered Steel	0.032 in	1
Conductor Count:			1	

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	0.143 in

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

Outer Jacket	
Material	Nominal Diameter
PE - Polyethylene	0.242 in

Electrical Characteristics

Conductor DCR				
Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
44.5 Ohm/1000ft	44.5 Ohm/1000ft		2.6 Ohm/1000ft	2.6 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Shield	
17.3 pF/ft	

Inductance	
Nominal Inductance	
0.097 µH/ft	

Impedance	
Nominal Characteristic Impedance	
75 Ohm	

Return Loss (RL)	
Frequency [MHz]	Minimum Return (RL)
5-450 MHz	23 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100ft
10 MHz	1 dB/100ft
50 MHz	2.1 dB/100ft
100 MHz	3 dB/100ft
200 MHz	4.5 dB/100ft
400 MHz	6.6 dB/100ft
700 MHz	8.9 dB/100ft
900 MHz	10.1 dB/100ft
1000 MHz	10.9 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	78%

High Frequency

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

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:	30 lbs/1000ft
Max. Pull Tension:	107 lbs
Min. Bend Radius/Minor Axis:	2.5 in

Standards

CPR Euroclass:	Fca
RG Type:	59
Series Type:	59

Applicable Environmental and Other Programs

Environmental Space:	Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
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8212 010500	Black	Reel	500 ft	612825355571
8212 010U500	Black	UnReel	500 ft	612825196150
8212 0101000	Black	Reel	1,000 ft	612825358671
8212 010U1000	Black	UnReel	1,000 ft	612825355564

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.345 Revision Date: 04-29-2024
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