



**Part Number: 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

### Product Overview

Environmental Space:	Outdoor
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### 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
AWG Size:	20

#### Insulation

Material	Nominal Diameter
FPE - Foamed Polyethylene	0.143 in

#### Outer Shield Material

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

#### Outer Jacket Material

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 $\mu$ H/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 Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
400 MHz	6.9 dB/100ft
10 MHz	
50 MHz	
100 MHz	
200 MHz	
400 MHz	
700 MHz	
900 MHz	
1000 MHz	

#### Voltage

Non-UL Voltage Rating
300 V RMS

#### Temperature Range

Non-UL Temp Rating:	80°C
Operating Temp Range:	-55°C To +80°C

#### Mechanical Characteristics

Bulk Cable Weight:	30 lbs/1000ft
Max Recommended Pulling Tension:	107 lbs
Min Bend Radius/Minor Axis:	2.5 in

#### Standards

CPR Euroclass:	Fca
RG Type:	RG-59/U Type
Series Type:	Series 59

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Suitability

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

### Part Number

Plenum (Y/N):	No
Footnote:	C - CRATE REEL PUT-UP.

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