



Product: [9275](#)

Analog Video, RG59, 20 AWG Solid BCCS, Foil + Alum Braid, CM PVC Jacket



Product Description

Analog Video, Series 59, 20 AWG solid .032" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duofoil® or Duobond®; aluminum braid shield (40% coverage), CM PVC 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
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Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.144 in

Table Notes:	Gas Injected
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Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Aluminum		40%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.237 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
44.5 Ohm/1000ft	17 Ohm/1000ft	17 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)
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5-550 MHz	18 dB
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss	Nom. Structural Return Loss (SRL)
5 MHz	0.75 dB/100ft	18 dB
55 MHz	1.84 dB/100ft	
211 MHz	3.36 dB/100ft	
270 MHz	3.79 dB/100ft	
300 MHz	3.99 dB/100ft	
350 MHz	4.33 dB/100ft	
400 MHz	4.66 dB/100ft	
450 MHz	4.96 dB/100ft	
550 MHz	5.48 dB/100ft	
750 MHz	6.51 dB/100ft	
870 MHz	7 dB/100ft	
1000 MHz	7.68 dB/100ft	

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	83%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.86 dB/100ft
55 MHz	2.05 dB/100ft
211 MHz	3.80 dB/100ft
270 MHz	4.22 dB/100ft
300 MHz	4.45 dB/100ft
350 MHz	4.80 dB/100ft
400 MHz	5.10 dB/100ft
450 MHz	5.40 dB/100ft
550 MHz	5.95 dB/100ft
600 MHz	6.20 dB/100ft

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temperature Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	22 lbs/1000ft
Max. Pull Tension:	80 lbs
Min. Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Compliance:	CATV, CM
CEC/C(UL) Compliance:	CM
CPR Euroclass:	Eca
RG Type:	59
Series Type:	59

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/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