



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

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.144 in

Table Notes: Gas Injected

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)	

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

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
9275 010U500	Black	UnReel	500 ft	612825358916
9275 0101000	Black	Reel	1,000 ft	612825226352
9275 010U1000	Black	UnReel	1,000 ft	612825226369
9275 009U1000	White	UnReel	1,000 ft	612825226376

History

Update and Revision:	Revision Number: 0.460 Revision Date: 04-29-2024
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