



**Product:** [9100](#)

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, Duobond® II (100% coverage) plus an aluminum braid (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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5-1000 MHz	20 dB
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#### 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
750 MHz	6.97 dB/100ft
870 MHz	7.57 dB/100ft
1000 MHz	8.12 dB/100ft

#### Voltage

UL Voltage Rating
300 V RMS

#### Temperature Range

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

#### Mechanical Characteristics

Bulk Cable Weight:	21 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
PMSHA Compliance:	P-MSHA-SC-182/4
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
IEC Flammability:	IEC 60332-1-2
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/EAN
9100-K101000	Black	Reel	305 m	8719605020093
9100 010U500	Black	UnReel	500 ft	612825224273
9100 0101000	Black	Reel	1,000 ft	612825224235
9100 010U1000	Black	UnReel	1,000 ft	612825224242
9100 009U1000	White	UnReel	1,000 ft	612825224259

## History

Update and Revision:	Revision Number: 0.428 Revision Date: 04-25-2024
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