

Product: <u>9104</u> ☑

CATV Video, RG59, 20 AWG BCCS, Foil + Braid, CM PVC Jacket

Product Description

CATV, Series 59, 20 AWG solid .032" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond®; aluminum braid(s) shield (65% coverage), CM PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor 20 Solid BCCS - Bare Copper Covered Steel 0.032 in Conductor Count: Insulation Material PE - Polyethylene (Foam) 0.144 in Gas Injected **Outer Shield** Type Layer Material **Material Trade Name** Tri-Laminate (Alum+Poly+Alum) Duofoil® 100% Tape 1

65%

Braid 2 Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.237 in

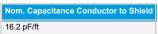
Aluminum

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
44.5 Ohm/1000ft	12 Ohm/1000ft	12 Ohm/1000ft

Capacitance



Inductance



Impedance



Return Loss (RL)

Frequency [MHz] Min. Structural Return Loss (SRL)

5-1000 MHz	20 dB	

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

Operating Temperature Range: -40°C To +80°C	
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Mechanical Characteristics

Bulk Cable Weight:	23 lbs/1000ft
Max. Pull Tension:	104 lbs
Min. Bend Radius/Minor Axis:	2.25 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:	No
MII Order #39 (China RoHS):	Yes

Suitability

Cuitability Indoor	Vee
Suitability - Indoor:	res

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
9104 0101000	Black	Reel	1,000 ft	612825224280
9104 010U1000	Black	UnReel	1,000 ft	612825224266
9104 009U1000	White	UnReel	1,000 ft	612825224297
9104 Q5HU1000	White, Neutral	UnReel	1,000 ft	612825224303

History

Update and Revision:	Revision Number: 0.377 Revision Date: 12-19-2022

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