

Part Number: 9110

CATV Video, RG59, 20 AWG BCCS, Tri Shield, 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 (67% coverage), CM PVC jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)
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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
Conductor Size:	20 AWG

Insulation

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.144 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Bonded Duofoil®	100 %
Braid	2	AL - Aluminum		67 %
Tape	3	Aluminum/Polyester/Aluminum	Duofoil®	100 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.242 in

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

Nom. Capacitance Conductor to Shield
16.2 pF/ft

Shielding:	Foil + Braid + Foil (Tri)
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Inductance

Nominal Inductance
0.097 µH/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	± 3 Ohm

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 Freq

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 Temp Range:	-40°C To +80°C
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Mechanical Characteristics

Bulk Cable Weight:	22 lbs/1000ft
Max Recommended Pulling Tension:	104 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Specification:	CATV, CM
CEC/C(UL) Specification:	CM
RG Type:	59/U Type
Series Type:	Series 59
RG / Series Type:	Series 59

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/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:	Yes
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 - 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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Part Number

Variants

Item #	Color
9110 009U1000	White

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