
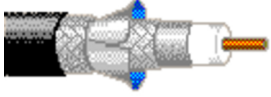


Product: [1186A](#) 



CATV Video, RG59, 20 AWG BCCS, Quad Shield (Foil + 65% Braid + Foil + 45% Braid), CM

Product Description

Series 59, 20 AWG solid .032" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid(s) shield (65% and 45% coverage), PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	CATV, Broadband
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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
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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		65%
Tape	3	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	4	Aluminum		45%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.265 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
44.5 Ohm/1000ft	7 Ohm/1000ft	7.0 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.2 pF/ft

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 MHz	20 dB
1000 MHz	20 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.89 dB/100ft
55 MHz	1.95 dB/100ft
211 MHz	3.59 dB/100ft
270 MHz	4.05 dB/100ft
300 MHz	4.27 dB/100ft
350 MHz	4.64 dB/100ft
400 MHz	4.88 dB/100ft
450 MHz	5.30 dB/100ft
550 MHz	5.90 dB/100ft
750 MHz	6.96 dB/100ft
870 MHz	7.54 dB/100ft
1000 MHz	8.09 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	0.89 dB/100ft
55 MHz	1.95 dB/100ft
211 MHz	3.59 dB/100ft
270 MHz	4.05 dB/100ft
300 MHz	4.27 dB/100ft
350 MHz	4.64 dB/100ft
400 MHz	4.88 dB/100ft
450 MHz	5.3 dB/100ft
550 MHz	5.9 dB/100ft
750 MHz	6.96 dB/100ft
870 MHz	7.54 dB/100ft
1000 MHz	8.09 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:	30 lbs/1000ft
Max. Pull Tension:	140 lbs
Min. Bend Radius/Minor Axis:	2.75 in

Standards

NEC/(UL) Compliance:	CATV, CM
CEC/C(UL) Compliance:	CM
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 Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

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

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1186A 0101000	Black	Reel	1,000 ft	612825107958

Product Notes

Notes:	Sweep tested 5 MHz to 1 GHz.
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History

Update and Revision:	Revision Number: 0.376 Revision Date: 12-15-2021
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