

Part Number: 1151A



CATV Video, RG59, 20 AWG BCCS, Quad Shield (Foil + 55% Braid + Foil + 50% Braid), CMP

Product Description

Series 59, 20 AWG solid .032" bare copper-covered steel conductor, plenum, foam FEP insulation, Duofoil® (100% coverage); TC braid shield (55% and 50% coverage), FEP jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor - Plenum
Suitable Applications:	CATV, Broadband

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	Material Trade Name	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	Teflon®	0.14 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		55 %
Tape	3	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	4	TC - Tinned Copper		50 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	Teflon®	0.236 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
26 Ohm/1000ft	2.3 Ohm/1000ft	2.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.5 pF/ft

Inductance

Nominal Inductance
0.093 µH/ft

Impedance

Nominal Characteristic Impedance

75 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5 MHz	20 dB
400 MHz	20 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 dB/100ft
10 MHz	0.8 dB/100ft
50 MHz	1.8 dB/100ft
100 MHz	2.6 dB/100ft
200 MHz	3.8 dB/100ft
400 MHz	5.6 dB/100ft
700 MHz	7.6 dB/100ft
900 MHz	8.8 dB/100ft
1000 MHz	9.4 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.21 ns/ft	84 %

High Freq

Min. SRL (Structural Return Loss)
20 dB

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Non-UL Temp Rating:	200°C
Operating Temp Range:	-70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	37 lbs/1000ft
Max Recommended Pulling Tension:	84 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
RG Type:	59/U Type
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 Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	Yes
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	No

Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Variants

Item #	Color	Footnote
1151A A8R1000	Beige, Snow	C

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Sweep tested 5 MHz to 400 MHz. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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