
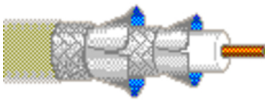


Product: [1151A](#) 



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

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
------------------	---

Insulation

Material	Material Trade Name	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	Teflon®	0.14 in

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		55%
Tape	3	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	4	Tinned Copper (TC)		50%

Outer Jacket

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 Frequency

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. Pull Tension:	84 lbs
Min. Bend Radius/Minor Axis:	2.5 in

### Standards

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
RG Type:	59
Series Type:	59

### Applicable Environmental and Other Programs

Environmental Space:	Indoor - 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

### 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, LSOH, Toxicity Testing

CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
1151A A8R1000	Beige, Snow	Reel	1,000 ft	612825107477

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

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.
--------	--

History

Update and Revision:	Revision Number: 0.386 Revision Date: 12-15-2021
----------------------	--

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[1151A A8R1000](#)