BELDEN

Product: 9141 ☒

Precision Video Coax, RG59, #20 Solid BC, Double 98% TC/BC Braid

Product Description

20 AWG solid .031" bare copper conductor, polyethylene insulation, tinned copper/bare copper braid shield (98% coverage), polyethylene jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.031 in	1
Conductor Count:			1	

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.2 in

Outer Shield

Type	Layer	Material	Coverage [%]
Braid	1	Tinned Copper (TC)	98%
Braid	2	Tinned Copper (TC)	98%

Outer Jacket

Material	Nominal Diameter
PE - Polyethylene	0.305 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
9.9 Ohm/1000ft	9.9 Ohm/1000ft	1.1 Ohm/1000ft	1.1 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
20 pF/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5-216 MHz	27 dB
217-850 MHz	23 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss

1 MHz	0.3 dB/100ft
3.6 MHz	0.5 dB/100ft
10 MHz	0.8 dB/100ft
71.5 MHz	2 dB/100ft
135 MHz	3.5 dB/100ft
270 MHz	4.3 dB/100ft
360 MHz	5 dB/100ft
540 MHz	6.2 dB/100ft
720 MHz	7.2 dB/100ft
750 MHz	7.4 dB/100ft
1000 MHz	9.1 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66%

Voltage

Non-UL Voltage Rating
1700 V RMS

Temperature Range

Non-UL Temp Rating:	80°C
Operating Temperature Range:	-55°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	68 lbs/1000ft
Max. Pull Tension:	172 lbs
Min. Bend Radius/Minor Axis:	3 in

Standards

RG Type:	59
Series Type:	59

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/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

Suitability - Aerial:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
9141 3681000	Clear, Transparent	Reel	1,000 ft	612825224730

Footnote:		C - CRATE REEL PUT-UP.

Product Notes

Notes:	Dielectric Strength: 8 kV.

History

Update and Revision:	Revision Number: 0.324 Revision Date: 04-29-2024

Mouser Electronics

Authorized Distributor

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

[Belden Wire & Cable](#):

[9141 3681000](#)