

9141 Coax - Double Braided RG-59/U Type

For more Information
please call

1-800-Belden1

**General Description:**

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

Physical Characteristics (Overall)**Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BC - Bare Copper	.031

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PE - Polyethylene	.200

Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	TC - Tinned Copper	98
2	Braid	TC - Tinned Copper	98

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

Overall Cable

Overall Nominal Diameter: 0.305 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-55°C To +80°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	68 lbs/1000 ft.
Max. Recommended Pulling Tension:	172 lbs.
Min. Bend Radius/Minor Axis:	3 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
RG Type:	59/U

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No

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Suitability - Aerial:	No
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
20

Nominal Velocity of Propagation:

VP (%)
66

Nominal Delay:

Delay (ns/ft)
1.54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
9.9

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.3
3.6	0.5
10.0	0.8
71.5	2.0
135	3.5
270	4.3
360	5.0
540	6.2
720	7.2
750	7.4
1000	9.1

Max. Operating Voltage - Non-UL:

Voltage
1700 V RMS

Other Electrical Characteristic 1:

Impedance Tested in accord with ASTM D-4566 Paragraph 43.2, Option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2:

Return Loss Tested in accord with ASTM D-4566 Paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	216	27
217	850	23

Sweep Test

Sweep Testing:	100% Sweep tested 5 MHz to 850 MHz.
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Notes (Overall)

Notes: Dielectric Strength: 8 kV.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9141 3681000	1,000 FT	73.000 LB	CLEAR, TRANSPARENT	C	75 OHM VIDEO COAX

Notes:

C = CRATE REEL PUT-UP.

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