Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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.

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Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors:

Insulation

Insulation Material:

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

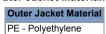
Outer Shield

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:



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:	164 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

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Yes			
Yes			
Yes			
59/U			
Suitability			
Yes			
No			
No			
Plenum/Non-Plenum			
No			
_			

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)

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)

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5	216	27
217	850	23

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 850 MHz.

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	С	75 OHM VIDEO COAX

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 05-14-2007

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