Detailed Specifications & Technical Data

METRIC 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.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	Solid	BC - Bare Copper	0.7874

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	
PE - Polyethylene	5.08

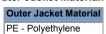
Outer Shield

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: 7.747 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-55°C To +80°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	101.198 Kg/Km
Max. Recommended Pulling Tension:	765.090 N
Min. Bend Radius/Minor Axis:	76.200 mm

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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EU Directive 2003/11/EC (BFR):	Yes	
CA Prop 65 (CJ for Wire & Cable):	Yes	
MII Order #39 (China RoHS):	Yes	
RG Type:	59/U	
Suitability		
Suitability - Indoor:	Yes	
Suitability - Outdoor:	No	
Suitability - Aerial:	No	
Plenum/Non-Plenum		
Plenum (Y/N):	No	

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 65.62

Nominal Velocity of Propagation:

VP (%) 66

Nominal Delay:

Delay (ns/m) 5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 32.4819

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 3.6091

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
3.6	1.6405
10.0	2.6248
71.5	6.562
135	11.4835
270	14.1083
360	16.405
540	20.3422
720	23.6232
750	24.2794
1000	29.8571

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: 04-30-2013

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