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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	Dia. (mm)
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:

Outer Jacket Material
PE - Polyethylene

#### 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

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
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## 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	C	75 OHM VIDEO COAX

**Notes:**

C = CRATE REEL PUT-UP.

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