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1-800-Belden1



## General Description:

20 AWG solid .031" bare copper conductor, polyethylene insulation, tinned copper braid shields (95% coverage), PVC 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	5.0292

### Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	TC - Tinned Copper	95.000
2	Braid	TC - Tinned Copper	95.000

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVCNC - Polyvinyl Chloride Non-Contaminating

### Overall Cable

Overall Nominal Diameter: 7.747 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 105.662 Kg/Km

Max. Recommended Pulling Tension: 747.298 N

Min. Bend Radius/Minor Axis: 76.200 mm

Min. Bend Radius (Continuous Flexing): 152.400 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMH

CEC/C(UL) Specification: CMH

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
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

### Flame Test

UL Flame Test:	UL1685 UL Loading, VW-1
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes - When supported by a messenger wire

### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/m)

0.387158

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

68.901

### 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	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 - UL:**

Voltage
300 V RMS

**Max. Operating Voltage - Non-UL:**

Voltage
1700 V RMS

**Other Electrical Characteristic 1:** Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

**Other Electrical Characteristic 2:** Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 ohm fixed bridge and termination. 720A Series is available by special request.

**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.

**Notes (Overall)**

**Notes:** Non-Plenum versions comply with Telcordia Specification GR-139-CORE.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9231	1 EA	5.773 LB			0985 S4742 104/70 M
9231 0081000	1,000 FT	76.000 LB	GRAY	C	#20 PE DBL BRD PVC
9231 008500	500 FT	39.000 LB	GRAY		#20 PE DBL BRD PVC

**Notes:**  
C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 08-24-2012

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