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1-800-Belden1



## General Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shields (95% and 80% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	Solid	BC - Bare Copper	0.8128

Total Number of Conductors: 1

### Insulation

#### Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	3.683

### Inner Shield

#### Inner Shield Material:

Type	Inner Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

### Inner Jacket

#### Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	5.715

### Outer Shield

#### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	80

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 8.001 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 93.757 Kg/Km

Max. Recommended Pulling Tension: 556.025 N

Min. Bend Radius/Minor Axis: 82.550 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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

### Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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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
Plenum Number:	88232

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/m)

0.318257

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.1522

### Nominal Velocity of Propagation:

VP (%)

83

### Nominal Delay:

Delay (ns/m)

4.00282

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

32.81

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
9.1868

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
3.6	1.9686
10	2.9529
71.5	6.8901
135	9.843
270	13.7802
360	15.7488
540	19.3579
720	22.967
750	23.2951
1000	27.2323
1500	34.4505
2250	43.9654
3000	52.1679

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Minimum Structural Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5.000	850.000	21.000
850.000	4500.000	15.000

**Sweep Test**

**Sweep Testing:** 100&#37; sweep tested 5 MHz to 4.5 GHz.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8232A 0101000	1,000 FT	68.000 LB	BLACK	C	#20 GIFHDLDPPE BRD PVC BRD PVC
8232A 0102500	2,500 FT	167.500 LB	BLACK		#20 GIFHDLDPPE BRD PVC BRD PVC

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

Revision Number: 4    Revision Date: 07-24-2012

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