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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% coverage), Belflex® 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)
PE - Polyethylene	5.4864

### Outer Shield

Outer Shield Material:

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

### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Belflex®	PVC Blend - Polyvinyl Chloride Blend

### Overall Cable

Overall Nominal Diameter: 9.144 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -35°C To +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 113.103 Kg/Km

Max. Recommended Pulling Tension: 551.577 N

Min. Bend Radius/Minor Axis: 95.250 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

## METRIC MEASUREMENT VERSION

1856A Coax - RG-59/U Type

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

RG Type: 59/U

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes - Black for permanent installations. All colors for field deployable use.

### Plenum/Non-Plenum

Plenum (Y/N): No

## 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)

33.1381

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.2496

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
3.6	1.9686
10	2.6248
71.5	7.2182
135	9.843
270	13.7802
360	15.7488
540	19.3579
720	22.6389
750	23.2951
1000	28.8728
1500	39.372
2250	53.8084
3000	66.9324

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

Voltage

300 V RMS

### Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	850	21
851	3000	15

### Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 3 GHz.

## Notes (Overall)

## METRIC MEASUREMENT VERSION

## 1856A Coax - RG-59/U Type

**Notes:** Permanent indent printing for field identification.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1856A B591000	1,000 FT	83.000 LB	BLACK, MATTE	C	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0021000	1,000 FT	83.000 LB	RED	C	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0041000	1,000 FT	83.000 LB	YELLOW	C	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0051000	1,000 FT	83.000 LB	GREEN, DARK	C	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0061000	1,000 FT	83.000 LB	BLUE, LIGHT	C	#20 PE/GIFHDPELDPE PVC TRIAX

**Notes:**

C = CRATE REEL PUT-UP.

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