# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



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

For more Information please call

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	<b>Conductor Material</b>	Dia. (in.)
1	20	Solid	BC - Bare Copper	.032

Total Number of Conductors:

1

### Insulation

### **Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.145

### **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. (in.)
PE - Polyethylene	.216

## **Outer Shield**

# Outer Shield Material:

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

## **Outer Jacket**

## **Outer Jacket Material:**

<b>Outer Jacket Trade Name</b>	Outer Jacket Material
Belflex®	PVC Blend - Polyvinyl Chloride Blend

## **Overall Cable**

Overall Nominal Diameter: 0.360 in.

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-35°C To +75°C			
Non-UL Temperature Rating:	75°C			
Bulk Cable Weight:	76 lbs/1000 ft.			
Max. Recommended Pulling Tension:	124 lbs.			
Min. Bend Radius/Minor Axis:	3.750 in.			

# **Applicable Specifications and Agency Compliance (Overall)**

**Applicable Standards & Environmental Programs** 

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# 1856A Coax - RG-59/U Type

	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
Su	itability	
	Suitability - Indoor:	Yes
	Suitability - Outdoor:	Yes - Black for permanent installations. All colors for field deployable use.
Ple	enum/Non-Plenum	
	Plenum (Y/N):	No

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



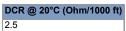
**Nominal Delay:** 



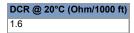
Nom. Conductor DC Resistance:



Nom. Inner Shield DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.3
3.6	.6
10	.8
71.5	2.2
135	3.0
270	4.2
360	4.8

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540	5.9	
720	6.9	
750	7.1	
1000	8.8	
1500	12.0	
2250	16.4	
3000	20.4	

### 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)**

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	С	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0021000	1,000 FT	83.000 LB	RED	С	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0041000	1,000 FT	83.000 LB	YELLOW	С	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0051000	1,000 FT	83.000 LB	GREEN, DARK	С	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0061000	1,000 FT	83.000 LB	BLUE, LIGHT	С	#20 PE/GIFHDPELDPE PVC TRIAX

#### Notes:

C = CRATE REEL PUT-UP.

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