

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	Conductor Material	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:**

Outer Jacket Trade Name	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**

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

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

75

Nom. Inductance:

Inductance (μH/ft)

.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.2

Nominal Velocity of Propagation:

VP (%)

83

Nominal Delay:

Delay (ns/ft)

1.22

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.1

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.6

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

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	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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