

## 1857A Coax - RG-59/U Type

For more Information  
please call

1-800-Belden1



### Description:

22 AWG stranded (19x34) .031" bare copper conductor, foam polyethylene insulation, bare copper braid shields (95% coverage), Belflex® jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	19x34	BC - Bare Copper	.031

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	.143

#### 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	94.7

#### 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: 79 lbs/1000 ft.

Max. Recommended Pulling Tension: 124 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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)

0.097

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

17.0

### Nominal Velocity of Propagation:

VP (%)

79

### Nominal Delay:

Delay (ns/ft)

1.29

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14.0

### 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	0.3
3.6	0.5
10	0.8
71.5	2.2
135	3.1
270	4.5
360	5.4
540	6.8
720	8.1
750	8.4

1000	10.1
1500	13.3
2250	17.6
3000	21.4

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

<b>Voltage</b>
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:** For use in field deployable applications where high flexibility, wide temperature range, and durability are required. Permanently indent printed for field identification.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1857A B591000	1,000 FT	86.000 LB	BLACK, MATTE	C	#22 FLDPE VLDPE PVC TRIAX
1857A B59500	500 FT	42.500 LB	BLACK, MATTE	C	#22 FLDPE VLDPE PVC TRIAX
1857A 0021000	1,000 FT	86.000 LB	RED	C	#22 FLDPE VLDPE PVC TRIAX
1857A 0041000	1,000 FT	86.000 LB	YELLOW	C	#22 FLDPE VLDPE PVC TRIAX
1857A 004500	500 FT	42.500 LB	YELLOW		#22 FLDPE VLDPE PVC TRIAX
1857A 0061000	1,000 FT	86.000 LB	BLUE, LIGHT	C	#22 FLDPE VLDPE PVC TRIAX
1857A 0071000	1,000 FT	86.000 LB	VIOLET	C	#22 FLDPE VLDPE PVC TRIAX

**Notes:**

C = CRATE REEL PUT-UP.

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