

## 1859A Coax - RG-11/U Type

For more Information  
please call

1-800-Belden1



### Description:

15 AWG stranded (19x27) .064" bare copper conductor, plenum, foam FEP insulation, bare copper braid shields (95% and 90% coverage), fluorocopolymer jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	15	19x27	BC - Bare Copper	.064

Total Number of Conductors: 1

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	.285

#### 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.)
PVDF - Fluorocopolymer	.350

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	90.000

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVDF - Fluorocopolymer

#### Overall Cable

Overall Nominal Diameter: 0.406 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +125°C

Non-UL Temperature Rating: 125°C

Bulk Cable Weight: 125 lbs/1000 ft.

Max. Recommended Pulling Tension: 264 lbs.

Min. Bend Radius/Minor Axis: 4 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 04/01/2005

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: 11/U

### Flame Test

UL Flame Test: NFPA 262

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Burial: Yes

### Plenum/Non-Plenum

Plenum (Y/N): Yes

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/ft)

0.108

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.5

### Nominal Velocity of Propagation:

VP (%)

80

### Nominal Delay:

Delay (ns/ft)

1.27

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.1

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.4

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.4

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	0.1
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3.6	0.2
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10	0.5
71.5	1.3
135	1.9
270	3.0
360	3.6
540	4.5
720	5.4
750	5.6
1000	6.6

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

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

Voltage
300 V RMS

**Minimum Return Loss:**

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

**Sweep Test**

**Sweep Testing:** 100% sweep tested 5 MHz to 4500 MHz.

**Misc. Information (Overall)**

**Notes (Overall)**

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1859A 0101000	1,000 FT	134.000 LB	BLACK	C	#15 FFEP BRD SLF BRD PVDF
1859A 010500	500 FT	66.500 LB	BLACK	C	#15 FFEP BRD SLF BRD PVDF

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

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