

## 1855A Coax - Sub-Miniature

For more Information  
please call

1-800-Belden1



### Description:

23 AWG solid .023" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	23	Solid	BC - Bare Copper	.023

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.102

#### Outer Shield

##### Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.159 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 17 lbs/1000 ft.

Max. Recommended Pulling Tension: 36 lbs.

Min. Bend Radius (Install)/Minor Axis: 1.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU CE Mark: Yes

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:	Sub-miniature 59/U

### Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only
Suitability - Aerial:	Yes - Black only, when supported by a messenger wire

### 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)

.107

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.3

#### Nominal Velocity of Propagation:

VP (%)

82

#### Nominal Delay:

Delay (ns/ft)

1.22

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

20.1

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

7.6

#### Nom. Attenuation:

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

1.000	0.390
3.580	0.780
5.000	0.920
6.000	1.000
7.000	1.080
10.000	1.200
12.000	1.300
25.000	1.800
67.500	2.830
71.500	3.060
88.500	3.160
100.000	3.330
135.000	3.810
143.000	3.920
180.000	4.380
270.000	5.400

360.000	6.200
540.000	7.700
720.000	9.470
750.000	9.590
1000.000	10.500
1500.000	13.000
2000.000	15.100
2250.000	16.000
3000.000	18.500
4500.000	22.800

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Other Electrical Characteristic 1:**

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

**Other Electrical Characteristic 2:**

Return loss tested in accordance with ASTM D-4566 paragraph 45.3 using a 75 Ohm fixed bridge and termination.

**Minimum Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	1600	23
1601	4500	21

**Sweep Test****Sweep Testing:**

100% Sweep tested 5 MHz to 4.5 GHz.

**Misc. Information (Overall)****Notes (Overall)**

**Notes:** Also available in multiples, bundled. See 7787A through 7792A.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1855A N3U1000	1,000 FT	19.000 LB	GREEN, MIL	C	#23 PE/GIFHDPE SH FR PVC
1855A 0011000	1,000 FT	19.000 LB	BROWN	C	#23 PE/GIFHDPE SH FR PVC
1855A 0021000	1,000 FT	19.000 LB	RED	C	#23 PE/GIFHDPE SH FR PVC
1855A 0031000	1,000 FT	19.000 LB	ORANGE	C	#23 PE/GIFHDPE SH FR PVC
1855A 0041000	1,000 FT	19.000 LB	YELLOW	C	#23 PE/GIFHDPE SH FR PVC
1855A 0061000	1,000 FT	19.000 LB	BLUE, LIGHT	C	#23 PE/GIFHDPE SH FR PVC
1855A 0071000	1,000 FT	19.000 LB	VIOLET	C	#23 PE/GIFHDPE SH FR PVC
1855A 0081000	1,000 FT	19.000 LB	GRAY	C	#23 PE/GIFHDPE SH FR PVC
1855A 0091000	1,000 FT	19.000 LB	WHITE	C	#23 PE/GIFHDPE SH FR PVC
1855A 0101000	1,000 FT	19.000 LB	BLACK	C	#23 PE/GIFHDPE SH FR PVC
1855A 010500	500 FT	9.500 LB	BLACK		#23 PE/GIFHDPE SH FR PVC

**Notes:**

C = CRATE REEL PUT-UP.

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