

## 1855P Coax - Sub-Miniature Plenum



For more Information  
please call

1-800-Belden1



### General Description:

23 AWG solid .023" bare copper conductor, gas-injected foam FEP insulation, Duofoil® (100% coverage) plus a tinned copper braid shield (95% coverage), flexible Flamarrest® jacket.

### Usage (Overall)

Suitable Applications:

SDI/HDTV Digital Video, High Definition (HD), Standard Definition (SDI) and Digital Audio Equipment in Professional & Commercial Applications such as TV Stations, Stadiums & Arenas, Convention Center, and other large facilities requiring high quality digital video transmissions, Plenum Applications

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	23	Solid	BC - Bare Copper	0.023

Total Number of Conductors:

1

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FEP - Foam Fluorinated Ethylene Propylene	0.102

#### 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 Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter:

0.159 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range:

-20°C To +75°C

UL Temperature Rating:

75°C

Bulk Cable Weight:

21 lbs/1000 ft.

Max. Recommended Pulling Tension:

40 lbs.

Min. Bend Radius/Minor Axis:

1.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:

CMP

CEC/C(UL) Specification:

CMP

EU Directive 2011/65/EU (ROHS II):

Yes

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):

03/28/2008

EU Directive 2002/96/EC (WEEE):

Yes

EU Directive 2003/11/EC (BFR):

Yes

CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
RG Type:	Sub-miniature 59/U

**Flame Test**

UL Flame Test:	UL910 Steiner Tunnel
CSA Flame Test:	FT6

**Suitability**

Suitability - Indoor:	Yes
Suitability - Aerial:	Yes - Black only.
Sunlight Resistance:	No

**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	1855A

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
75

**Nom. Inductance:**

Inductance (µH/ft)  
0.300

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)  
16.300

**Nominal Velocity of Propagation:**

VP (%)  
80.000

**Nominal Delay:**

Delay (ns/ft)  
1.22

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
20.100

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
3.700

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.380
3.600	0.760
10.000	1.300
71.500	3.100
135.000	4.100
270.000	5.800
360.000	6.900
540.000	8.700
720.000	10.300
750.000	10.500
1000.000	12.400
1500.000	15.700
2250.000	19.900
3000.000	23.800
4500.000	30.300

**Max. Operating Voltage - UL:**

Voltage  
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#37; Sweep tested 5 MHz to 4.5 GHz.

**Misc. Information (Overall)**

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1855P N3U1000	1,000 FT	22.000 LB	GREEN, MIL		#23 FFEP SH FLRST
1855P 0011000	1,000 FT	22.000 LB	BROWN		#23 FFEP SH FLRST
1855P 0021000	1,000 FT	22.000 LB	RED		#23 FFEP SH FLRST
1855P 0031000	1,000 FT	22.000 LB	ORANGE		#23 FFEP SH FLRST
1855P 0041000	1,000 FT	22.000 LB	YELLOW		#23 FFEP SH FLRST
1855P 0061000	1,000 FT	22.000 LB	BLUE, LIGHT		#23 FFEP SH FLRST
1855P 0071000	1,000 FT	22.000 LB	VIOLET		#23 FFEP SH FLRST
1855P 0081000	1,000 FT	22.000 LB	GRAY		#23 FFEP SH FLRST
1855P 0101000	1,000 EA	22.000 LB	BLACK		#23 FFEP SH FLRST
1855P 8771000	1,000 FT	22.000 LB	NATURAL		#23 FFEP SH FLRST

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