

1855P Coax - Sub-Miniature Plenum



For more Information
please call

1-800-Belden1

**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 Flammarrest® 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

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
Flammarrest®	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 (Install)/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 CE Mark: Yes

1855P Coax - Sub-Miniature Plenum

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
MII Order #39 (China RoHS):	Yes
RG Type:	Sub-miniature 59/U

Flame Test

UL Flame Test:	UL910 Steiner Tunnel
C(UL) Flame Test:	FT6
CSA Flame Test:	FT6

Suitability

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

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Plenum Number:	1855P
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)

20.500

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.900

Nom. Attenuation:

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

1.000 0.380

3.600 0.760

10.000 1.300

1855P Coax - Sub-Miniature Plenum

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% Sweep tested 5 MHz to 4.5 GHz.

Misc. Information (Overall)**Related Documents:**

No related documents are available for this product

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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