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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. (mm)
1	23	Solid	BC - Bare Copper	0.584

Total Number of Conductors:

1

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FEP - Foam Fluorinated Ethylene Propylene	2.591

#### 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: 4.039 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 31.252 Kg/Km

Max. Recommended Pulling Tension: 177.928 N

Min. Bend Radius/Minor Axis: 38.100 mm

### 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
MII 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/m)  
0.984

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)  
53.480

**Nominal Velocity of Propagation:**

VP (%)  
80.000

**Nominal Delay:**

Delay (ns/m)  
4.00282

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)  
65.948

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)  
12.140

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1.000	1.247
3.600	2.494
10.000	4.265
71.500	10.171
135.000	13.452
270.000	19.030
360.000	22.639
540.000	28.545
720.000	33.794
750.000	34.451
1000.000	40.684
1500.000	51.512
2250.000	65.292
3000.000	78.088
4500.000	99.414

**Max. Operating Voltage - UL:**

Voltage  
300 V RMS

<b>Other Electrical Characteristic 1:</b>	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
<b>Other Electrical Characteristic 2:</b>	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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