



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 Flammarrest® jacket.

Usage (Overall)

Suitable Applications:

SMPTE 2081-1 6 Gb/s UHD TV, SMPTE 424M 3 Gb/s HD-SDI 1080p, 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
Flammarrest®	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/(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
6000.000	119.428

Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1: TDR Impedance: 75 +/- 3 Ohms

Other Electrical Characteristic 2: Return Loss: Fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	1600.000	23.000
1600.000	4500.000	21.000
4500.000	6000.000	15.000

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 6 GHz.

Notes (Overall)

Notes: Print legend includes sequential footage marks.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
VDM230TS-0.41	1,000 FT	24.000 LB	BLACK		23 AWG 1C MINI HD/SDI COAX CMP
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 FT	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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METRIC MEASUREMENT VERSION

1855P Coax - Sub-Miniature Plenum

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