



Part Number: 1855P

Serial Digital Coax, Sub-miniature, #23 Solid BC, Foil + 95% TC braid, CMP

Product Description

Low Loss Serial Digital Coax, Plenum-CMP, Sub-Miniature 23 AWG solid bare copper conductor, foam FEP core, Duofoil®, +95% tinned copper braid, Flamarrest® jacket

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor
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	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	BC - Bare Copper	0.023 in	1

Conductor Count:	1
Conductor Size:	23 AWG

Insulation

Material	Nominal Diameter
Gas-injected FEP - Foam Fluorinated Ethylene Propylene	0.102 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.159 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
20.1 Ohm/1000ft	3.7 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.6 pF/ft

Inductance

Nominal Inductance
0.3 µH/ft

Impedance

Nominal Characteristic Impedance

75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.38 dB/100ft
3.6 MHz	0.76 dB/100ft
10 MHz	1.3 dB/100ft
71.5 MHz	3.1 dB/100ft
135 MHz	4.1 dB/100ft
270 MHz	5.8 dB/100ft
360 MHz	6.9 dB/100ft
540 MHz	8.7 dB/100ft
720 MHz	10.3 dB/100ft
750 MHz	10.5 dB/100ft
1000 MHz	12.4 dB/100ft
1500 MHz	15.7 dB/100ft
2250 MHz	19.9 dB/100ft
3000 MHz	23.8 dB/100ft
4500 MHz	30.3 dB/100ft
6000 MHz	36.4 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.27 ns/ft	80 %

Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	Return Loss: Fixed bridge and termination
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Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-20°C To +75°C

Mechanical Characteristics

UV Resistance:	No
Bulk Cable Weight:	21 lbs/1000ft
Max Recommended Pulling Tension:	40 lbs
Min Bend Radius/Minor Axis:	1.5 in

Standards

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
CPR Euroclass:	Eca
RG Type:	Mini 59/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2008-03-28
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	1855A
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Variants

Item #	Color
1855P 0101000	Black
1855P 0061000	Blue, Light
1855P 0011000	Brown
1855P 0081000	Gray
1855P N3U1000	Green, Mil
1855P 8771000	Natural
1855P 0031000	Orange
1855P 0021000	Red
1855P 0071000	Violet
1855P 0041000	Yellow

Product Notes

Notes:	Print legend includes sequential footage marks.
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