



Product: [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

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
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	BC - Bare Copper	0.023 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.102 in

Table Notes:	Gas Injected
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Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
PVC-LS - Polyvinyl Chloride (Low Smoke)	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. Pull Tension:	40 lbs
Min Bend Radius/Minor Axis:	1.5 in

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Plenum
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
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, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
IEC Flammability:	IEC 60332-1-2
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	Putup Type	Length	UPC
1855P 0101000	Black	Reel	1,000 ft	612825124771
1855P 0061000	Blue, Light	Reel	1,000 ft	612825124740
1855P 0011000	Brown	Reel	1,000 ft	612825124702
1855P 0081000	Gray	Reel	1,000 ft	612825124764
1855P N3U1000	Green, Mil	Reel	1,000 ft	612825124696
1855P 8771000	Natural	Reel	1,000 ft	612825124788
1855P 0031000	Orange	Reel	1,000 ft	612825124726
1855P 0021000	Red	Reel	1,000 ft	612825124719
1855P 0071000	Violet	Reel	1,000 ft	612825124757
1855P 0041000	Yellow	Reel	1,000 ft	612825124733

Product Notes

Notes:	Print legend includes sequential footage marks.
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History

Update and Revision:	Revision Number: 0.289 Revision Date: 04-28-2020
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