Product: 1855P ⧉

75 Ohm SDI Coax, Mini RG-59, 23 AWG Solid BC, Foil + 95% TC Braid, PVC Jkt, CMP

Product Description

75 Ohm SDI Coax, Mini RG-59, 23 AWG Solid Bare Copper Conductor, FEP Insulation, Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p

Construction Details

RG Type:	Mini 59

Conductor

AWG	Stranding	Nom. Diameter	Material
23	Solid	0.023 in	BC - Bare Copper

Insulation

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

Outer Shield Material

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		95%

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.159 in

Electrical Characteristics

Return Loss (RL)

Frequency [MHz]	Min. Return Loss [dB]
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	0.38 dB/100ft
3.58 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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedence	Nom. Velocity
20.1 Ohm/1000ft	3.7 Ohm/1000ft	16.6 pF/ft	75 Ohm	80%

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Rating	Operating
75°C	0°C to +75°C

Bend Radius

Installation Min.
4 in

Bulk Cable Weight:	21 lbs/1000ft
Max. Pull Tension:	40 lbs

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	NFPA 262, FT6
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	1855A

History

Update and Revision:	Revision Number: 0.343 Revision Date: 09-30-2020

Mouser Electronics

Authorized Distributor

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