



Product: [1694F](#) 

75 Ohm SDI Coax, RG-6, 19 AWG Str BC, Double 95% TC Braid, PVC Jkt, CM, Flexible

Product Description

75 Ohm SDI Coax, RG-6, 19 AWG (7x27) Bare Copper Conductor, PE Insulation, Double 95% Tinned Copper Braid Shield, PVC Jacket, CM, Flexible

Technical Specifications

Product Overview

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

RG Type:	6
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Conductor

AWG	Stranding	Nom. Diameter	Material
19	7x27	0.041 in	BC - Bare Copper

Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.180 in

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Braid	Tinned Copper (TC)	95%
2	Braid	Tinned Copper (TC)	95%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.276 in

Electrical Characteristics

Return Loss (RL)

Frequency [MHz]	Min. Return Loss [dB]
5 - 850 MHz	20 dB
850 - 6000 MHz	15 dB

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	0.24 dB/100ft
3.58 MHz	0.45 dB/100ft
5 MHz	0.54 dB/100ft
6 MHz	0.55 dB/100ft
7 MHz	0.62 dB/100ft
10 MHz	0.72 dB/100ft
12 MHz	0.83 dB/100ft
25 MHz	1.18 dB/100ft
55 MHz	1.76 dB/100ft

67.5 MHz	1.9 dB/100ft
71.5 MHz	2.0 dB/100ft
88.5 MHz	2.2 dB/100ft
100 MHz	2.4 dB/100ft
135 MHz	2.8 dB/100ft
143 MHz	2.9 dB/100ft
180 MHz	3.3 dB/100ft
270 MHz	4.0 dB/100ft
360 MHz	4.7 dB/100ft
540 MHz	5.9 dB/100ft
720 MHz	6.9 dB/100ft
750 MHz	7.1 dB/100ft
1000 MHz	8.4 dB/100ft
1500 MHz	10.6 dB/100ft
2000 MHz	12.5 dB/100ft
2250 MHz	13.4 dB/100ft
3000 MHz	15.9 dB/100ft
4500 MHz	20.6 dB/100ft
6000 MHz	28.7 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity
8.5 Ohm/1000ft	1.7 Ohm/1000ft	17.0 pF/ft	75 Ohm	80%

Voltage

UL Voltage Rating
300 V (CM)

Mechanical Characteristics

Temperature

UL Rating	Operating
60°C	-35°C to +75°C

Bend Radius

Installation Min.
2.75 in

Bulk Cable Weight:	50 lbs/1000ft
Max. Pull Tension:	90 lbs

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL 1685 - UL Loading
NEC / UL Compliance:	CM
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.340 Revision Date: 05-26-2021
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