

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

Construction Details

RG Type:	6

Conductor

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

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.180 in (4.57 mm)

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 (7.01 mm)

Overall Cable Diameter (Nominal):	0.276 in (7.01 mm)

Electrical Characteristics

Return Loss (RL)

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

Attenuation

Frequency	Nom. Attenuation
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 of Prop.
8.5 Ohm/1000ft (28 Ohm/km)	1.7 Ohm/1000ft (5.6 Ohm/km)	17.0 pF/ft (55.8 pF/m)	75 Ohm	80%

Voltage

UL Voltage Rating
300 V (CM)

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.
2.75 in

Max. Pull Tension:	90 lbs (41 kg)
Bulk Cable Weight:	50 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	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: 0.352 Revision Date: 04-08-2022

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
1694F B591000	Black, Matte	Reel	1,000 ft	612825356196
1694F B59N1000	Black, Matte	Reel w/Small Barrel	1,000 ft	
1694F B595000	Black, Matte	Reel	5,000 ft	612825439813
1694F G7X1000	Blue, Matte	Reel	1,000 ft	612825356110
1694F G7X5000	Blue, Matte	Reel	5,000 ft	612825439851
1694F G7W1000	Green, Matte	Reel	1,000 ft	612825356127

1694F G7W5000	Green, Matte	Reel	5,000 ft	612825439837
1694F G8L1000	Orange, Matte	Reel	1,000 ft	612825356097
1694F G8L5000	Orange, Matte	Reel	5,000 ft	612825439899
1694F G7V1000	Red, Matte	Reel	1,000 ft	612825356134
1694F G7V5000	Red, Matte	Reel	5,000 ft	612825440468
1694F Z4B1000	Violet	Reel	1,000 ft	612825358176
1694F Z4B5000	Violet	Reel	5,000 ft	612825439912
1694F G7Y1000	White, Matte	Reel	1,000 ft	612825356103
1694F G7Y5000	White, Matte	Reel	5,000 ft	612825439882
1694F G8M1000	Yellow, Matte	Reel	1,000 ft	612825356080
1694F G8M5000	Yellow, Matte	Reel	5,000 ft	612825439905

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