



**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**

Element	Size	Stranding	Nom. Diameter	Material
Coax(es)	19 AWG	7x27	0.041 in	BC - Bare Copper

**Insulation**

Element	Material	Nom. Insulation Diameter	Color Code
Coax(es)	PE - Polyethylene (Foam)	0.180 in (4.57 mm)	White

**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)
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**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	6.3 dB/100ft
1500 MHz	7.8 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	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 (69.9 mm)

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: 0.527 Revision Date: 07-03-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1694F B591000	Black, Matte	Reel	1,000 ft	612825356196	C
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	C
1694F G7X5000	Blue, Matte	Reel	5,000 ft	612825439851	

1694F G7W1000	Green, Matte	Reel	1,000 ft	612825356127	C
1694F G7W5000	Green, Matte	Reel	5,000 ft	612825439837	
1694F G8L1000	Orange, Matte	Reel	1,000 ft	612825356097	C
1694F G8L5000	Orange, Matte	Reel	5,000 ft	612825439899	
1694F G7V1000	Red, Matte	Reel	1,000 ft	612825356134	C
1694F G7V5000	Red, Matte	Reel	5,000 ft	612825440468	
1694F Z4B1000	Violet	Reel	1,000 ft	612825358176	C
1694F Z4B5000	Violet	Reel	5,000 ft	612825439912	
1694F G7Y1000	White, Matte	Reel	1,000 ft	612825356103	C
1694F G7Y5000	White, Matte	Reel	5,000 ft	612825439882	
1694F G8M1000	Yellow, Matte	Reel	1,000 ft	612825356080	C
1694F G8M5000	Yellow, Matte	Reel	5,000 ft	612825439905	

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