



Product: [4694P](#)

4K UHD Coax for 12G-SDI, 75 Ohm, RG-6, 18 AWG Solid SC, Foil + 95% TC Braid, PVC Jkt, CMP

Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Silvered Copper Conductor, FEP Insulation, Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	Ultra-High Definition Digital Video, 4K Single-link 12 Gb/s UHDTV, 4K D-Cinema, 8K Quad-link UHDTV, HD-SDI 1080p
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Construction Details

RG Type:	6
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Conductor

Size	Stranding	Nom. Diameter	Material
18 AWG	Solid	0.040 in	SC - Silvered Copper

Insulation

Material	Nom. Insulation Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.168 in (4.27 mm)

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.229 in (5.82 mm)

Overall Cable Diameter (Nominal): 0.229 in (5.82 mm)

Electrical Characteristics

Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 12000 MHz	15 dB

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.23 dB/100ft
3.58 MHz	0.46 dB/100ft
5 MHz	0.54 dB/100ft
6 MHz	0.58 dB/100ft
7 MHz	0.63 dB/100ft
10 MHz	0.73 dB/100ft
12 MHz	0.80 dB/100ft
25 MHz	1.11 dB/100ft

55 MHz	1.57 dB/100ft
67.5 MHz	1.73 dB/100ft
71.5 MHz	1.77 dB/100ft
88.5 MHz	1.92 dB/100ft
100 MHz	2.07 dB/100ft
135 MHz	2.39 dB/100ft
143 MHz	2.46 dB/100ft
180 MHz	2.76 dB/100ft
270 MHz	3.42 dB/100ft
360 MHz	4.02 dB/100ft
540 MHz	5.08 dB/100ft
720 MHz	6.01 dB/100ft
750 MHz	6.15 dB/100ft
1000 MHz	7.29 dB/100ft
1500 MHz	9.27 dB/100ft
2000 MHz	11.02 dB/100ft
2250 MHz	11.84 dB/100ft
3000 MHz	14.12 dB/100ft
4500 MHz	18.19 dB/100ft
6000 MHz	21.53 dB/100ft
12000 MHz	33.02 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
6.4 Ohm/1000ft (21 Ohm/km)	2.9 Ohm/1000ft (9.5 Ohm/km)	16.1 pF/ft (52.8 pF/m)	75 Ohm	83%

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	0°C to +75°C

Bend Radius

Installation Min.
2.3 in

Max. Pull Tension:	69 lbs (31 kg)
Bulk Cable Weight:	41 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor, UV Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262, FT6
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
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)
Non-Plenum Number:	4694R

History

Update and Revision:	Revision Number: 0.158 Revision Date: 04-08-2022
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
4694P 0101000	Black	Reel	1,000 ft	612825406808
4694P 0105000	Black	Reel	5,000 ft	612825406815
4694P 0061000	Blue, Light	Reel	1,000 ft	612825406785

4694P N3U1000	Green, Mil	Reel	1,000 ft	612825406754
4694P 0031000	Orange	Reel	1,000 ft	612825406778
4694P 0021000	Red	Reel	1,000 ft	612825406761
4694P 0071000	Violet	Reel	1,000 ft	612825406792

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