



Product: [4694PX](#)

4K UHD Coax for 12G-SDI, 75 Ohm, RG-6, 18 AWG Solid SC, Foil + 95% TC Braid, PVDF Jacket, I/O CMP

Product Description

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

Technical Specifications

Product Overview

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

RG Type:	6
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	18 AWG	Solid	0.040 in	SC - Silvered Copper

Insulation

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

Inner Shield

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

Outer Jacket

Material	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.229 in (5.82 mm)

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

Mechanical Characteristics

Temperature

UL Temperature	Operating
125°C	-20°C to +125°C

Bend Radius

Stationary Min.
2.3 in (58 mm)

Max. Pull Tension:	92 lbs (42 kg)
Bulk Cable Weight:	36 lbs/1000ft (54 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor/OutdoorPlenum, Indoor, Outdoor, Sunlight Resistance, Aerial - When supported by messenger wire
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.15 Revision Date: 04-29-2024
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