

4694F - 12 GHz Coax, 4K UHD

Precision Flexible Video Coax, RG-6/U

Type, 75 Ohm, 18 AWG solid SC, CM

Item: 20119428

Product Overview

Suitable Applications

SMPTE 2082-1 12 Gb/s UHDTV, SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080P

Construction Details

RG Type

6

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
PE - Polyethylene (Foam)	0.180 in (4.57 mm)	White

Table Notes

Gas Injected

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

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

ATTENUATION

Frequency	Nom. Attenuation
1 MHz	0.19 dB/100ft
3.58 MHz	0.37 dB/100ft
5 MHz	0.45 dB/100ft
6 MHz	0.49 dB/100ft
7 MHz	0.53 dB/100ft
10 MHz	0.63 dB/100ft
12 MHz	0.69 dB/100ft
25 MHz	1.01 dB/100ft
55 MHz	1.52 dB/100ft
67.5 MHz	1.70 dB/100ft
71.5 MHz	1.75 dB/100ft
88.5 MHz	1.96 dB/100ft
100 MHz	2.09 dB/100ft
135 MHz	2.45 dB/100ft
143 MHz	2.52 dB/100ft
180 MHz	2.86 dB/100ft
270 MHz	3.56 dB/100ft
360 MHz	4.17 dB/100ft
540 MHz	5.25 dB/100ft
720 MHz	6.18 dB/100ft
750 MHz	6.32 dB/100ft
1000 MHz	7.44 dB/100ft
1500 MHz	9.39 dB/100ft
2000 MHz	11.09 dB/100ft
2250 MHz	11.87 dB/100ft
3000 MHz	14.09 dB/100ft
4500 MHz	18.04 dB/100ft
6000 MHz	21.71 dB/100ft
12000 MHz	40.53 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)	1.5 Ohm/1000ft (4.9 Ohm/km)	15.9 pF/ft (52.2 pF/m)	75 Ohm	85%

VOLTAGE

UL Voltage Rating

300 V RMS

Electrical Characteristics Notes

Return Loss: Fixed bridge and termination

Mechanical Characteristics

TEMPERATURE

UL Temperature	Operating
75°C	-30°C To +75°C

BEND RADIUS

Stationary Min.	Installation Min.
2.75 in (69.9 mm)	2.75 in (69.9 mm)
Max. Pull Tension	80 lbs (36 kg)
Bulk Cable Weight	48 lbs/1000ft

Standards and Compliance

Environmental Suitability	Indoor, Indoor
Flammability / Reaction to Fire	UL1685 UL Loading
CPR Compliance	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance	Article 800, CM
CEC / C(UL) Compliance	CM
UK Regulation Compliance	UKCA Mark
APAC Compliance	China RoHS II (GB/T 26572-2011)

