

4694R - 4K UHD Coax for 12G-SDI, 75 Ohm, RG-6, 18 AWG Solid SC, Foil + 95% TC Braid, PVC Jkt, CMR

Item: 20119429



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

Construction Details

RG Type

6

CONDUCTOR

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

INSULATION

Material	Nom. Insulation Diameter	Color Code	Notes
PE - Polyethylene (Foam)	0.180 in (4.57 mm)	White	Gas Injected

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	0.274 in (6.96 mm)

Overall Cable Diameter (Nominal)

0.274 in (6.96 mm)

Electrical Characteristics

RETURN LOSS

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	0.44 dB/100ft
5 MHz	0.51 dB/100ft
6 MHz	0.56 dB/100ft
7 MHz	0.59 dB/100ft
10 MHz	0.70 dB/100ft
12 MHz	0.75 dB/100ft
25 MHz	1.04 dB/100ft
55 MHz	1.45 dB/100ft
67.5 MHz	1.58 dB/100ft
71.5 MHz	1.62 dB/100ft
88.5 MHz	1.78 dB/100ft
100 MHz	1.89 dB/100ft
135 MHz	2.10 dB/100ft
143 MHz	2.16 dB/100ft
180 MHz	2.44 dB/100ft
270 MHz	2.97 dB/100ft
360 MHz	3.45 dB/100ft
540 MHz	4.30 dB/100ft
720 MHz	5.00 dB/100ft
750 MHz	5.10 dB/100ft
1000 MHz	5.90 dB/100ft
1500 MHz	7.30 dB/100ft
2000 MHz	8.50 dB/100ft
2250 MHz	9.10 dB/100ft
3000 MHz	10.6 dB/100ft
4500 MHz	13.2 dB/100ft
6000 MHz	15.5 dB/100ft
12000 MHz	23.0 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	2.8 Ohm/1000ft (9.2 Ohm/km)	15.9 pF/ft (52.2 pF/m)	75 Ohm	85%

VOLTAGE

UL Voltage Rating

300 V (CMR, CMG)

Mechanical Characteristics

TEMPERATURE

UL Temperature	Operating
60°C	-20°C to +75°C

BEND RADIUS

Installation Min.

2.75 in (69.9 mm)

Standards and Compliance

Environmental Suitability	Indoor - Riser, Indoor, Aerial - Black only, When supported by messenger wire
Sustainability	CA Prop 65
Flammability / Reaction to Fire	UL1666 Vertical Shaft
CPR Compliance	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance	CMR
CEC / C(UL) Compliance	CMG
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)
Plenum Number	4694P

History

Update and Revision	Revision Number: 0.402 Revision Date: 04-25-2023
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