



**Product:** <u>4694R</u> ☑

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

# **Product Description**

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

## **Technical Specifications**

### **Product Overview**

Suitable Applications:		Jltra-High Definition Digita	al Video, 4K Single-link 12 Gb/s UHDTV, 4K D-Cinema, 8K Quad-link UHDTV, HD-SDI 108	
Construction Details				
RG Type:		6	5	
Condu	ctor			
AWG	Stranding	Nom. Diamete	er Material	
18	Solid	0.040 in	SC - Silvered Copper	

#### Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.180 in

#### **Outer Shield Material**

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

### Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.274 in

# **Electrical Characteristics**

# Return Loss (RL)

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

# Attenuation

Frequency	Nom. Attenuation [dB/100ft]
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. Impedence	Nom. Velocity
6.4 Ohm/1000ft	2.8 Ohm/1000ft	15.9 pF/ft	75 Ohm	85%

#### Voltage

UL Voltage Rating 300 V (CMR, CMG)

## **Mechanical Characteristics**

#### Temperature

<b>UL Rating</b>	Operating
60°C	-20°C to +75°C

#### Bend Radius



Bulk Cable Weight:	41 lbs/1000ft
Max. Pull Tension:	69 lbs

# **Standards and Compliance**

Environmental Suitability:	Indoor - Riser, Indoor, UV Resistance
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1666 Vertical Shaft, FT4
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	4694P

# **History**

Update and Revision:	Revision Number: 0.277 Revision Date: 09-30-2020

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