

Product: 4694R

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:	Ultra-High Definition Digital Video, 4K Single-link 12 Gb/s UHDTV, 4K D-Cinema, 8K Quad-link UHDTV, 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
PE - Polyethylene (Foam)	0.180 in (4.57 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	0.274 in (6.96 mm)

Overall Cable Diameter (Nominal):	0.274 in (6.96 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	0.44 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 (21 Ohm/km)	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

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

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor, UV Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft, FT4
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	4694P

History

Update and Revision:	Revision Number: 0.294 Revision Date: 04-08-2022

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
4694R 0101000	Black	Reel	1,000 ft	612825396772
4694R 0105000	Black	Reel	5,000 ft	612825396826
4694R 01010000	Black	Reel	10,000 ft	612825436805

4694R 0061000	Blue, Light	Reel	1,000 ft	612825396758
4694R 0065000	Blue, Light	Reel	5,000 ft	612825436690
4694R 00610000	Blue, Light	Reel	10,000 ft	612825436768
4694R N3U1000	Mil Green	Reel	1,000 ft	612825396727
4694R N3U5000	Mil Green	Reel	5,000 ft	612825437604
4694R N3U10000	Mil Green	Reel	10,000 ft	612825436812
4694R 0031000	Orange	Reel	1,000 ft	612825396741
4694R 0035000	Orange	Reel	5,000 ft	612825436676
4694R 00310000	Orange	Reel	10,000 ft	612825436744
4694R 0071000	Purple	Reel	1,000 ft	612825396765
4694R 0075000	Purple	Reel	5,000 ft	612825436706
4694R 00710000	Purple	Reel	10,000 ft	612825436775
4694R 0021000	Red	Reel	1,000 ft	612825396734
4694R 0025000	Red	Reel	5,000 ft	612825436669
4694R 00210000	Red	Reel	10,000 ft	612825436737
4694R 0091000	White	Reel	1,000 ft	612825413264
4694R 0095000	White	Reel	5,000 ft	612825436713
4694R 00910000	White	Reel	10,000 ft	612825436782
4694R 0041000	Yellow	Reel	1,000 ft	612825408208
4694R 0045000	Yellow	Reel	5,000 ft	612825436683
4694R 00410000	Yellow	Reel	10,000 ft	612825436751

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