



Product: [4694RX5](#)

12 GHz 5 Coax, 4K UHD Precision Video Cable, RG-6 Type, 75 Ohm, 18 AWG Solid, CMR

Product Description

12 GHz, 4K UHD Precision Video Cable, RG-6 Type, 75 Ohm 5 Coax 18 AWG solid 0.040" silver-plated copper conductor, gas-injected foamed high-density polyethylene insulation, Duofoil® bonded to the core + tinned copper braid shield (95% coverage), PVC inner and outer jackets

Technical Specifications

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
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Construction Details

RG Type:	6
Series Type:	6

Conductor

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

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.180 in (4.57 mm)

Table Notes:	Gas Injected
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Inner Shield

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

Inner Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.274 in (6.96 mm)

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.970 in

Electrical Characteristics

Return Loss (RL)

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	0.23 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. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
6.4 Ohm/1000ft (21 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
60°C	-20°C to +75°C

Max. Pull Tension: 280 lbs (130 kg)

Bulk Cable Weight: 366 lbs (166 kg)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor - Black only, Aerial - Black only, When supported by messenger wire
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), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2019-06-01
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes: Print legend includes sequential footage marks.

History

Update and Revision: Revision Number: 0.281 Revision Date: 04-15-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length
4694RX5 B59CUT	Black	Reel	
4694RX5 B591000	Black	Reel	1,000 ft

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