

Product: 4694ANH

12 GHz Coax, 4K UHD Precision Video Coax, RG-6/U Type, 75 Ohm, 18 AWG Solid, CMG-LS

Product Description

12 GHz Coax, 4K UHD Precision Video Cable, RG-6/U Type, 75 Ohm, 18 AWG solid .040" silver plated copper conductor, gas-injected foam HDPE insulation, Duofoil® bonded to core + tinned copper braid shield (95% coverage), LSZH jacket.

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

Construction Details

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

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	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 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. 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 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:	69 lbs (31 kg)
Bulk Cable Weight:	41 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca, Indoor, Aerial - Black only, When supported by messenger wire
Flammability / Reaction to Fire:	UL1685 FT4 loading , FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s1,d1,a1; CPR UKCA Class: Dca-s1,d1,a1
NEC / UL Compliance:	Article 800, CMG-LS
CEC / C(UL) Compliance:	CMG-LS
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	4694P

Non-Plenum Number:	4694R

Product Notes

Notes:	Print legend includes sequential footage marks.//(1)RG Type :-In Stibo it was 6 But in BPCS it is not there. (2)# Elements@Conductor1:-In Stibo it was Blank and now changed to 1. (3)Size@Conductor1 :-In Stibo it was 18 now changed to 18AWG (4)Color@Color Chart1 01 :- In stibo it was Blank now Changed to White (5)Material@OuterShield1 1 - In stibo it is Tri-Laminate (Alum+Poly+Alum) But in BPCS (EAA+ Alum+ Poly+Alum) (6)TableNotes@OuterShield- In stibo it was Blank now Changed to Splicing Tape (7)Cable Diameter (Nominal)- In Stibo it was Blank Now Changed to 0.274 in

History

Update and Revision:	Revision Number: 0.190 Revision Date: 04-29-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
4694ANH G751000	Aqua	Reel	1,000 ft	612825437369
4694ANH G751640	Aqua	Reel	1,640 ft	612825437208
4694ANH G753280	Aqua	Reel	3,280 ft	612825437253
4694ANH 0101000	Black	Reel	1,000 ft	612825437185
4694ANH 0101640	Black	Reel	1,640 ft	612825437246
4694ANH 0103280	Black	Reel	3,280 ft	612825437291
4694ANH 0061000	Blue, Light	Reel	1,000 ft	612825437178
4694ANH 0061640	Blue, Light	Reel	1,640 ft	612825437222
4694ANH 0063280	Blue, Light	Reel	3,280 ft	612825437277
4694ANH N3U1000	Mil Green	Reel	1,000 ft	612825437161
4694ANH N3U1640	Mil Green	Reel	1,640 ft	612825437215
4694ANH N3U3280	Mil Green	Reel	3,280 ft	612825437260
4694ANH 0071000	Purple	Reel	1,000 ft	612825437192
4694ANH 0071640	Purple	Reel	1,640 ft	612825437239
4694ANH 0073280	Purple	Reel	3,280 ft	612825437284

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