



Product: [4794ANH](#)

12 GHz Coax, 4K UHD Precision Video Cable, RG-7 Series, 75 Ohm, 16 AWG Solid SC, LSZH Jkt

Product Description

12 GHz, 4K UHD Precision Video Cable, RG-7 Series, 75 Ohm 16 AWG solid 0.051" silver-plated copper conductor, gas-injected foamed high-density polyethylene insulation, Duofoil® bonded to the core + tinned copper braid shield (95% coverage) plus Beldfoil® with shorting fold, 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
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Construction Details

Series Type:	7
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Conductor

Number of Element	Size	Stranding	Nom. Diameter	Material
1	16 AWG	Solid	0.051 in	SC - Silvered Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.225 in (5.72 mm)	White

Table Notes:	Gas Injected
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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%
3	Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%

Table Notes:	Tape is bonded to dielectric
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Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.320 in (8.13 mm)

Overall Cable Diameter (Nominal):	0.320 in (8.13 mm)
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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	0.26 dB/100ft
3.58 MHz	0.43 dB/100ft

5 MHz	0.50 dB/100ft
6 MHz	0.52 dB/100ft
7 MHz	0.55 dB/100ft
10 MHz	0.63 dB/100ft
12 MHz	0.66 dB/100ft
25 MHz	0.88 dB/100ft
55 MHz	1.21 dB/100ft
67.5 MHz	1.31 dB/100ft
71.5 MHz	1.34 dB/100ft
88.5 MHz	1.47 dB/100ft
100 MHz	1.54 dB/100ft
135 MHz	1.75 dB/100ft
143 MHz	1.79 dB/100ft
180 MHz	1.98 dB/100ft
270 MHz	2.40 dB/100ft
360 MHz	2.76 dB/100ft
540 MHz	3.41 dB/100ft
720 MHz	3.96 dB/100ft
750 MHz	4.05 dB/100ft
1000 MHz	4.70 dB/100ft
1500 MHz	5.83 dB/100ft
2000 MHz	6.80 dB/100ft
2250 MHz	7.25 dB/100ft
3000 MHz	8.48 dB/100ft
4500 MHz	10.66 dB/100ft
6000 MHz	12.47 dB/100ft
12000 MHz	19.45 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
4 Ohm/1000ft (13 Ohm/km)	1.9 Ohm/1000ft (6.2 Ohm/km)	16.0 pF/ft (52.5 pF/m)	75 Ohm	85%

Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	Return Loss: Fixed bridge and termination
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Mechanical Characteristics

Temperature

Operating
-30°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
3.2 in (81 mm)	3.2 in (81 mm)

Max. Pull Tension:	84 lbs (38 kg)
Bulk Cable Weight:	59 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca, Indoor, Aerial - Black only, When supported by messenger wire
CPR Compliance:	CPR Euroclass: Dca-s1,d1,a1; CPR UKCA Class: Dca-s1,d1,a1
European Directive Compliance:	EU CE Mark, 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)

Product Notes

Notes:	PF_4794ANH 1)# Elements@Conductor1:-In Stibo it was Blank and now changed to 1. 2)Size@Conductor1 :-In Stibo it was 16 now changed to 16AWG. 3)Diameter@Conductor1(Nominal)- In Stibo it was 0.051 in Now Changed to 0.053 in. 3)Color@Color Chart1 01 :- In stibo it was Blank now Changed to White. 4)Material@Conductor1-In stibo it is Silvered Copper But in BPCS its Showing ANNEALED SOLID SILVER COATED COPPER WIRE 5)Cable Diameter (Nominal)- In Stibo it was Blank Now Changed to 0.320 in. 6)Bulk Cable Weight - In stibo it was 56 lbs/1000 ft Now changed to 59 lbs/1000 ft.
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History

Update and Revision:	Revision Number: 0.187 Revision Date: 03-27-2023
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