

Product: 4731ANH

12 GHz Coax, 4K UHD Precision Video Cable, RG-11/U Type, 75 Ohm, 14 AWG Solid SC, CMG-LS

Product Description

12 GHz Coax, 4K UHD Precision Video Cable, RG-11U Coax, 14 AWG solid .064" silver-plated copper conductor, gas-injected foam HDPE insulation, Duofoil® bonded to core + tinned copper braid shield (95% coverage) + bonded to jacket, 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

RG Type:	11

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	14 AWG	Solid	0.066 in	SC - Silvered Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.280 in (7.11 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%
3	Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	

Outer Jacket

Material	Nom. Diameter
PO - Polyolefin	0.400 in (10.2 mm)

Overall Cable Diameter (Nominal):	0.400 in (10.2 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	0.16 dB/100ft
3.58 MHz	0.30 dB/100ft
5 MHz	0.34 dB/100ft

6 MHz	0.37 dB/100ft
7 MHz	0.39 dB/100ft
10 MHz	0.45 dB/100ft
12 MHz	0.49 dB/100ft
25 MHz	0.67 dB/100ft
55 MHz	0.95 dB/100ft
67.5 MHz	1.04 dB/100ft
71.5 MHz	1.07 dB/100ft
88.5 MHz	1.17 dB/100ft
100 MHz	1.24 dB/100ft
135 MHz	1.41 dB/100ft
143 MHz	1.45 dB/100ft
180 MHz	1.61 dB/100ft
270 MHz	1.96 dB/100ft
360 MHz	2.27 dB/100ft
540 MHz	2.81 dB/100ft
720 MHz	3.27 dB/100ft
750 MHz	3.34 dB/100ft
1000 MHz	3.89 dB/100ft
1500 MHz	4.83 dB/100ft
2000 MHz	5.65 dB/100ft
2250 MHz	6.02 dB/100ft
3000 MHz	7.07 dB/100ft
4500 MHz	8.81 dB/100ft
6000 MHz	10.45 dB/100ft
12000 MHz	16.39 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
2.5 Ohm/1000ft (8.2 Ohm/km)	1.5 Ohm/1000ft (4.9 Ohm/km)	15.5 pF/ft (50.9 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.
4 in (100 mm)	4 in (100 mm)

Max. Pull Tension:	145 lbs (65.8 kg)
Bulk Cable Weight:	88 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
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 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:	Print legend includes sequential footage marks.///(1)RG Type :-In Stibo it was 11 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 14 now changed to 14AWG (4)Material@Conductor1-In stibo it is Silvered Copper But in BPCS its Showing ANNEALED SOLID SILVER COATED COPPER WIRE (5)Color@Color Chart1 01 :- In stibo it was Blank now Changed to White (6)Material@OuterShield1 1 - In stibo it is Tri-Laminate (Alum+Poly+Alum) But in BPCS (Heat fusible+ Alum+ Poly+Alum) (7)Material@OuterShield1 3 -In stibo it is Tri-Laminate (Alum+Poly+Alum) But in BPCS (PVC Heat Seal+ Alum+ Poly+Alum) (8)Cable Diameter (Nominal)- In Stibo it was Blank Now Changed to 0.400 in (9)Bulk Cable Weight - In stibo it was 87 lbs/1000 ft Now chnaged to 88 lbs/1000 ft (10)Material@OuterJacket1 1 -In stibo it was LSZH Now changed to PO

History

Update and Revision:	Revision Number: 0.192 Revision Date: 04-29-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length
4731ANH G751000	Aqua	Reel	1,000 ft
4731ANH 0101000	Black	Reel	1,000 ft
4731ANH 0061000	Blue, Light	Reel	1,000 ft
4731ANH N3U1000	Green, Mil	Reel	1,000 ft
4731ANH 0071000	Violet	Reel	1,000 ft

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