



**Product:** [4731ANH](#) 

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

**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
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**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter	No. of Coax
14	Solid	SC - Silvered Copper	0.064 in	1

**Insulation**

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.280 in

Table Notes:	Gas Injected
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**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%
Tape	3	Bi-Laminate (Alum+Poly)	Beldfoil®	

**Outer Jacket Material**

Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.400 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Outer Conductor DCR
2.5 Ohm/1000ft	1.5 Ohm/1000ft

**Capacitance**

Nom. Capacitance Conductor to Shield
15.5 pF/ft

**Inductance**

Nominal Inductance
0.097 µH/ft

**Impedance**

Nominal Characteristic Impedance
75 Ohm

#### Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 MHz - 1600 MHz	23 dB
1600 MHz - 4500 MHz	21 dB
4500 MHz - 12000 MHz	15 dB

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	85%

#### Voltage

##### UL Voltage Rating

300 V RMS

Electrical Characteristics Notes: Return Loss: Fixed bridge and termination

#### Temperature Range

Operating Temp Range:	-30°C To +75°C
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#### Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	87 lbs/1000ft
Max. Pull Tension:	145 lbs
Min. Bend Radius/Minor Axis:	4.0 in

#### Standards

CPR Euroclass:	Dca-s1,d1,a1
RG Type:	11

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

## Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### 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

## Product Notes

Notes:	Print legend includes sequential footage marks.
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## History

Update and Revision:	Revision Number: 0.111 Revision Date: 07-12-2021
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