



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

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

### Product Description

12 GHz, 4K UHD Precision Video Coax, 75 Ohm RG11 Type 14 AWG solid silver plated copper conductor, foam FEP core, Duofoil® bonded to core+95% tinned copper braid+Duofoil®, CMP, PVDF jacket

### Technical Specifications

#### Product Overview

Suitable Applications:	SMPTE 2082-1 12 Gb/s UHD TV, SMPTE 2081-1 6 Gb/s UHD TV, SMPTE 424M 3 Gb/s HD-SDI 1080P
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#### Construction Details

RG Type:	11
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#### Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	14 AWG	Solid	0.064 in	SC - Silvered Copper

#### Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.274 in (6.96 mm)	White

#### Outer Shield

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

#### Outer Jacket

Material	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.348 in (8.84 mm)

Overall Cable Diameter (Nominal):	0.348 in (8.84 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	0.16 dB/100ft
3.58 MHz	0.31 dB/100ft
5 MHz	0.36 dB/100ft
6 MHz	0.39 dB/100ft
7 MHz	0.41 dB/100ft

10 MHz	0.48 dB/100ft
12 MHz	0.52 dB/100ft
25 MHz	0.71 dB/100ft
55 MHz	1.03 dB/100ft
67.5 MHz	1.13 dB/100ft
71.5 MHz	1.16 dB/100ft
88.5 MHz	1.29 dB/100ft
100 MHz	1.36 dB/100ft
135 MHz	1.57 dB/100ft
143 MHz	1.62 dB/100ft
180 MHz	1.82 dB/100ft
270 MHz	2.28 dB/100ft
360 MHz	2.70 dB/100ft
540 MHz	3.46 dB/100ft
720 MHz	4.15 dB/100ft
750 MHz	4.26 dB/100ft
1000 MHz	5.11 dB/100ft
1500 MHz	6.64 dB/100ft
2000 MHz	8.01 dB/100ft
2250 MHz	8.65 dB/100ft
3000 MHz	10.51 dB/100ft
4500 MHz	13.61 dB/100ft
6000 MHz	16.44 dB/100ft
12000 MHz	25.89 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
6.3 Ohm/1000ft (21 Ohm/km)	2.9 Ohm/1000ft (9.5 Ohm/km)	16.1 pF/ft (52.8 pF/m)	75 Ohm	83%

#### Voltage

UL Voltage Rating
300 V RMS

## Mechanical Characteristics

#### Temperature

UL Temperature	Operating
125°C	-20°C To +125°C

#### Bend Radius

Stationary Min.	Installation Min.
3.5 in (89 mm)	3.5 in (89 mm)

Max. Pull Tension:	145 lbs (65.8 kg)
Bulk Cable Weight:	66 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum/Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, UV Resistance, Aerial - When supported by messenger wire
Flammability / Reaction to Fire:	NFPA 262, FT6
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), REACH, 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)
Non-Plenum Number:	4731R

## Product Notes

Notes:	(1) # Elements@Conductor1 :1 (Previously Blank) (2) Size@Conductor1 : 14 AWG (Previously 14) (3) Color@Color Chart1 01 : White (Previously Blank) (4) Coverage@OuterShield1 3 : 100% (Previously Blank) (5) Cable Diameter (Nominal) : 0.348 in (Previously Blank) (6) Bulk Cable Weight : 60 lbs/1000ft (Previously 78 lbs/1000ft)
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## History

Update and Revision: Revision Number: 0.249 Revision Date: 11-27-2023

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
4731P 0101000	Black	Reel	1,000 ft	612825419532

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