



Product: [4731R](#)

4K UHD Coax for 12G-SDI, 75 Ohm, RG-11, 14 AWG Solid SC, Tri-Shield, PVC Jkt, CMR

Product Description

75 Ohm SDI Coax, RG-11, 14 AWG Solid Silvered Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid + Foil Shield, PVC Jacket, CMR

Technical Specifications

Product Overview

Suitable Applications:	Ultra-High Definition Digital Video, 4K Single-link 12 Gb/s UHD TV, 4K D-Cinema, 8K Quad-link UHD TV, HD-SDI 1080p
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Construction Details

RG Type:	11
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Conductor

Size	Stranding	Nom. Diameter	Material
14 AWG	Solid	0.064 in	SC - Silvered Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.280 in (7.11 mm)	White

Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage	Notes
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%	
2	Braid	Tinned Copper (TC)		95%	
3	Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	With Shorting Fold and Bonded to inside of jacket for easy preparation

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.400 in (10.2 mm)

Overall Cable Diameter (Nominal):	0.400 in (10.2 mm)
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Electrical Characteristics

Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 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	1.3 Ohm/1000ft (4.3 Ohm/km)	15.5 pF/ft (50.9 pF/m)	75 Ohm	85%

Voltage

UL Voltage Rating
300 V (CMR, CMG)

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-20°C to +75°C

Bend Radius

Installation Min.
4 in (100 mm)

Max. Pull Tension:	145 lbs (65.8 kg)
Bulk Cable Weight:	86 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, 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)
Plenum Number:	4731P

History

Update and Revision:	Revision Number: 0.397 Revision Date: 04-25-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
4731R 0101000	Black	Reel	1,000 ft	612825396963
4731R 0104000	Black	Reel	4,000 ft	612825436720
4731R 0105000	Black	Reel	5,000 ft	612825396970
4731R 0061000	Blue, Light	Reel	1,000 ft	612825396949
4731R N3U1000	Mil Green	Reel	1,000 ft	612825396918
4731R 0031000	Orange	Reel	1,000 ft	612825396932
4731R 0071000	Purple	Reel	1,000 ft	612825396956
4731R 0021000	Red	Reel	1,000 ft	612825396925

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