



Product: <u>4731R</u> ☑

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 UHDTV, 4K D-Cinema, 8K Quad-link UHDTV, HD-SDI 1080p

Construction Details

RG Type:	11		

Conductor

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

Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.280 in

Outer Shield Material

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

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.400 in

Electrical Characteristics

Return Loss (RL)

Frequency [MHz]	Min. Return Loss [dB]
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 12000 MHz	15 dB

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
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 720 MHz 3.27 dB/100ft 720 MHz 3.34 dB/100ft 750 MHz 3.89 dB/100ft 1500 MHz 4.83 dB/100ft 1500 MHz 4.83 dB/100ft 2000 MHz 5.65 dB/100ft 3000 MHz 6.02 dB/100ft 3000 MHz 8.81 dB/100ft 4500 MHz 8.81 dB/100ft		
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3000 MHz 7.07 dB/100ft 4500 MHz 8.81 dB/100ft 6000 MHz 10.45 dB/100ft	2000 MHz	5.65 dB/100ft
4500 MHz 8.81 dB/100ft 6000 MHz 10.45 dB/100ft	2250 MHz	6.02 dB/100ft
6000 MHz 10.45 dB/100ft	3000 MHz	7.07 dB/100ft
	4500 MHz	8.81 dB/100ft
12000 MHz 16.39 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. Impedence	Nom. Velocity
2.5 Ohm/1000ft	1.3 Ohm/1000ft	15.5 pF/ft	75 Ohm	85%

Voltage

UL Voltage Rating 300 V (CMR, CMG)

Mechanical Characteristics

Temperature

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

Bend Radius



Bulk Cable Weight:	87 lbs/1000ft	
Max. Pull Tension:	145 lbs	

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor, UV Resistance
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1666 Vertical Shaft
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	4731P

History

Update and Revision:	Revision Number: 0.280 Revision Date: 05-26-2021

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