



Product: [4794R](#)

4K UHD Coax for 12G-SDI, 75 Ohm, Series 7, 16 AWG Solid SC, Tri-Shield, PVC Jkt, CMR

Product Description

75 Ohm SDI Coax, Series 7, 16 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

Series Type:	7
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Conductor

AWG	Stranding	Nom. Diameter	Material
16	Solid	0.051 in	SC - Silvered Copper

Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.225 in

Outer Shield Material

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

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.320 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	0.26 dB/100ft
3.58 MHz	0.43 dB/100ft
5 MHz	0.50 dB/100ft
6 MHz	0.52 dB/100ft
7 MHz	0.55 dB/100ft
10 MHz	0.63 dB/100ft
12 MHz	0.66 dB/100ft

25 MHz	0.88 dB/100ft
55 MHz	1.21 dB/100ft
67.5 MHz	1.31 dB/100ft
71.5 MHz	1.34 dB/100ft
88.5 MHz	1.47 dB/100ft
100 MHz	1.54 dB/100ft
135 MHz	1.75 dB/100ft
143 MHz	1.79 dB/100ft
180 MHz	1.98 dB/100ft
270 MHz	2.40 dB/100ft
360 MHz	2.76 dB/100ft
540 MHz	3.41 dB/100ft
720 MHz	3.96 dB/100ft
750 MHz	4.05 dB/100ft
1000 MHz	4.70 dB/100ft
1500 MHz	5.83 dB/100ft
2000 MHz	6.80 dB/100ft
2250 MHz	7.25 dB/100ft
3000 MHz	8.48 dB/100ft
4500 MHz	10.66 dB/100ft
6000 MHz	12.47 dB/100ft
12000 MHz	19.45 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedence	Nom. Velocity
4.0 Ohm/1000ft	1.8 Ohm/1000ft	16.0 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

Installation Min.
3.2 in

Bulk Cable Weight:	56 lbs/1000ft
Max. Pull Tension:	84 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), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	4794P

History

Update and Revision:	Revision Number: 0.283 Revision Date: 03-16-2021
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