Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

4794R Coax - Low Loss Serial Digital Coax



For more Information please call





General Description:

12 GHz, 4K UHD Precision Video Cable, 75 Ohm 16 AWG solid 0.051" silver-plated copper conductor, gas-injected foamed high-density polyethylene insulation, Duofoil® bonded to the core + tinned copper braid shield (95% coverage) plus Beldfoil® with shorting fold, PVC jacket.

Jsage (Overall)					
Suitable Applications:	SMPTE 2082-1 12 Gb/s U	SMPTE 2082-1 12 Gb/s UHDTV, SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p			
hysical Characteristics (Overall)					
Conductor					
AWG: # Coax AWG Stranding Conductor Mate	erial Dia. (in.)				
	ted Copper 0.051				
Total Number of Conductors:		1			
nsulation					
Insulation Material	Dia. (in.)				
Gas-injected FHDPE - Foam High Density F					
Outer Shield		1			
Outer Shield Material:			0		
Layer # Outer Shield Trade Name 1 Bonded Duofoil®	Type Outer Shield	Material I-Polyester Tape-Aluminum Foil) Description	
2	Braid TC - Tinned C		95.000		
3 Bonded Beldfoil® with shorting fold			100.000	Bonded to jacket	
Outer Jacket Material PVC - Polyvinyl Chloride Overall Cable					
Overall Nominal Diameter:		0.320 in.			
lechanical Characteristics (Overall)				
Operating Temperature Range:		-30°C To +75°C			
Bulk Cable Weight:		59 lbs/1000 ft.			
Max. Recommended Pulling Tension:		111 lbs.			
Min. Bend Radius/Minor Axis:		3.250 in.			
Applicable Specifications and Agen		(Overall)			
Applicable Standards & Environmental NEC/(UL) Specification:	Programs	CMR			
CEC/C(UL) Specification:		CMG			
EU Directive 2011/65/EU (ROHS II):		Yes			
EU CE Mark:		Yes			
EU Directive 2000/53/EC (ELV):		Yes			
EU Directive 2002/95/EC (RoHS):		Yes			
EU RoHS Compliance Date (mm/dd/yyyy):	:	01/01/2004			
EU Directive 2002/96/EC (WEEE):		Yes			
EU Directive 2003/11/EC (BFR):		Yes			
CA Prop 65 (CJ for Wire & Cable):		Yes			

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MII Order	#39 (China RoHS):	 Yes	
Series Typ	pe:	Series 7	
ame Test			
UL Flame	Test:	UL1666 Vertical Shaft	
CSA Flame Test:		 FT4	
		F14	
uitability			
Suitability	/ - Indoor:	Yes	
lenum/Non-	-Plenum		
Plenum (Y	(/N):	No	
Impedance 75 om. Inductance 0.091 om. Capacitance 16.100 ominal Veloci VP (%) 84.000 ominal Delay: Delay (ns/ft) 1.210	ce: (µH/ft) nce Conductor to Shield: e (pF/ft) ity of Propagation:		
4.000	C (Ohm/1000 ft) Shield DC Resistance:		
4.000 ominal Outer DCR @ 20°C 1.900 om. Attenuati	Shield DC Resistance: C (Ohm/1000 ft) ion:		
4.000 ominal Outer DCR @ 20°C 1.900 om. Attenuati Freq. (MHz)	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.)		
4.000 DCR @ 20°C 1.900 DCR	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170		
4.000 ominal Outer DCR @ 20°C 1.900 om. Attenuati Freq. (MHz) 1.000 3.580	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300		
4.000 minal Outer DCR @ 20°C 1.900 m. Attenuati Freq. (MHz) 1.000 3.580 5.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350		
4.000 ominal Outer DCR @ 20°C 1.900 om. Attenuati Freq. (MHz) 1.000 3.580	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300		
4.000 minal Outer DCR @ 20°C 1.900 m. Attenuati Freq. (MHz) 1.000 3.580 5.000 6.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380		
4.000 DCR @ 20°C 1.900 DCR @	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.400		
4.000 minal Outer DCR @ 20°C 1.900 m. Attenuati Freq. (MHz) 1.000 3.580 5.000 6.000 7.000 10.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.400 0.480		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 DCR @ 20°C 1.900 DCR @ 20°C 1.900 0.000 1.000 10.000 10.000 12.000 25.000 55.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.400 0.480 0.520 0.740 1.080		
4.000 DCR @ 20°C 1.900 Treq. (MHz) 1.000 3.580 5.000 6.000 7.000 10.000 12.000 25.000 55.000 67.500	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200		
4.000 DCR @ 20°C 1.900 Treq. (MHz) 1.000 3.580 5.000 6.000 7.000 10.000 12.000 25.000 55.000 67.500 71.500	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240		
4.000 DCR @ 20°C 1.900 Treq. (MHz) 1.000 3.580 5.000 6.000 7.000 12.000 25.000 55.000 67.500 71.500 88.500	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.370		
4.000 DCR @ 20°C 1.900 Treq. (MHz) 1.000 3.580 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.350 0.380 0.400 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.370 1.460		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 5.000 5.000 10.000 12.000 25.000 55.000 67.500 71.500 88.500 100.000 135.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.240 1.370 1.460 1.700		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 5.000 5.000 10.000 12.000 25.000 55.000 67.500 71.500 88.500 100.000 135.000 143.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.350 0.380 0.400 0.520 0.740 1.080 1.200 1.240 1.240 1.370 1.460 1.750		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 5.000 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000 135.000 143.000 143.000 180.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.240 1.240 1.240 1.270 1.240 1.370 1.240 1.370 1.240 1.370 1.240		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 5.000 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000 135.000 143.000 143.000 270.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.240 1.240 1.270 1.240 1.240 1.370 1.240 1.370 2.430		
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4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 5.000 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000 135.000 143.000 143.000 270.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.240 1.240 1.270 1.240 1.240 1.370 1.240 1.370 2.430		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 3.580 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000 135.000 143.000 143.000 143.000 270.000 360.000 540.000	Attenuation (dB/100 ft) 0.170 0.300 0.350 0.380 0.400 0.480 0.520 0.740 1.200 1.240 1.370 1.460 1.750 1.970 2.430 2.830 3.500		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 3.580 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000 135.000 143.000 143.000 143.000 270.000 360.000 540.000 720.000	Attenuation (dB/100 ft) 0.170 0.300 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.370 1.460 1.750 1.970 2.430 2.830 3.500		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 3.580 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000 135.000 143.000 143.000 143.000 270.000 360.000 540.000 720.000 750.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.370 1.460 1.750 1.970 2.430 2.830 3.500 4.090 4.180		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 3.580 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000 135.000 143.000 143.000 143.000 270.000 360.000 540.000 720.000 750.000 1000.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.370 1.460 1.750 1.970 2.430 2.830 3.500 4.180 4.890		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 3.580 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000 135.000 143.000 143.000 143.000 270.000 360.000 540.000 720.000 1000.000 1500.000 1500.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.400 0.480 0.520 0.740 1.080 1.200 1.240 1.370 1.460 1.750 1.970 2.430 3.500 4.180 4.890 6.100		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 3.580 5.000 6.000 7.000 10.000 12.000 25.000 55.000 71.500 88.500 100.000 135.000 143.000 143.000 143.000 270.000 360.000 540.000 750.000 1000.000 1500.000 2000.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.480 0.520 0.740 1.280 1.240 1.370 1.460 1.750 1.970 2.430 3.500 4.090 4.180 4.890 6.100 7.200		
4.000 DCR @ 20°C 1.900 DCR @ 20°C 1.900 3.580 5.000 6.000 7.000 10.000 12.000 25.000 67.500 71.500 88.500 100.000 135.000 143.000 135.000 143.000 143.000 143.000 150.000 70.000 70.000 100.000 220.000 2250.000 2250.000	Shield DC Resistance: C (Ohm/1000 ft) ion: Attenuation (dB/100 ft.) 0.170 0.300 0.350 0.380 0.480 0.520 0.740 1.280 1.240 1.270 1.460 1.770 2.430 2.830 3.500 4.090 4.180 4.890 6.100 7.200 7.690		

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	9.600		
Max. Operating V	oltage - UL:		
Voltage 300 V RMS			
Other Electr	ical Characteristic	: 1:	TDR Impedance: 75 +/- 3 Ohms
Other Electr	ical Characteristic	2:	Return Loss: Fixed bridge and termination.
Minimum Return	Loss:		
Start Freq. (M	Hz) Stop Freq. (MI	Hz) Min. RL (dB)	
5.000	1600.000	23.000	
1600.000	4500.000	21.000	
4500.000	12000.000	15.000	
Sweep Test			

Sweep Testing:

Sweep tested 5 MHz to 12 GHz.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
4794R 0101000	1,000 FT	60.000 LB	BLACK	С	#16 LDPE/GIFHDLDPE SH FRPVC
4794R 0102500	2,500 FT	145.000 LB	BLACK	CZ	#16 LDPE/GIFHDLDPE SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 1 Revision Date: 07-15-2016

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