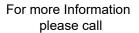


4731R Coax - 4K Ultra-High-Definition Coax Cable for 12G-SDI



1-800-Belden1



General Description:

RG-11/U type, 14 AWG solid .064" silver-plated copper conductor, gas-injected foam HDPE insulation, Duofoil® bonded to core + tinned copper braid shield (95% coverage) + bonded to jacket, PVC jacket.

Usa	ge (Ov	veral	I)							
Suitable Applications:				:		SMPTE 2081-2 12 Gb/s UHDTV, SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p				
Phy	sical (Char	acterist	ics (Overall)						
	Conductor AWG:									
	# Coax	AWG	Stranding	Conductor Material	Dia.	(mm)				
	1	14	Solid	SPC - Silver-Plated Copper	1.62	26				
	Total N	umbe	er of Cond	luctors:		1				
	ulation sulatio		erial:							
	Inculati	ion Ma	tarial		D:	. /mama				

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	7.112

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)	Description
1	Bonded Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100.000	Bonded to insulation
2		Braid	TC - Tinned Copper	95.000	
3	Bonded Beldfoil® with shorting fold	Tape	Polyester Tape-Aluminum Foil		Bonded to jacket

Outer Jacket

Outer Jacket Material:

Outer Jacket Material

PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:

10.160 mm

Operating Temperature Range:	-30°C To +75°C			
Bulk Cable Weight:	129.473 Kg/Km			
Max. Recommended Pulling Tension:	644.989 N			
Min. Bend Radius/Minor Axis:	101.600 mm			

Applicable Specifications and Agency Compliance (Overall) **Applicable Standards & Environmental Programs** NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMG EU Directive 2011/65/EU (ROHS II): Yes

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

4731R Coax - 4K Ultra-High-Definition Coax Cable for 12G-SDI

	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			
	MII Order #39 (China RoHS):	Yes			
	RG Type:	11/U			
Fla	ame Test				
	UL Flame Test:	UL1666 Vertical Shaft			
	CSA Flame Test:	FT4			
Su	itability				
	Suitability - Indoor:	Yes			
	Suitability - Outdoor:	Yes - Black only.			
	Suitability - Aerial:	Yes - Black only, when supported by messenger wire.			
	Suitability - Burial:	No			
Ple	enum/Non-Plenum				
	Plenum (Y/N):	No			
Ele	ctrical Characteristics (Overall)				
	m. Characteristic Impedance:				
	Impedance (Ohm) 75				
No	Nom. Inductance:				
	Inductance (μΗ/m) 0.318257				

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

52.496

Nominal Velocity of Propagation:

VP (%) 85

Nominal Delay:

Delay (ns/m)

3.97001

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

4.9215

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

• • •	•
1.000	0.525
3.580	0.984
5.000	1.116
6.000	1.214
7.000	1.280
10.000	1.476

Detailed Specifications & Technical Data



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Max. Operating Voltage - UL:

Voltage 300 V RMS

Other Electrical Characteristic 1:

Return Loss: Fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	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.

Notes (Overall)

Notes: Print legend includes sequential footage marks.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
4731R N3U1000	1,000 FT	95.000 LB	GREEN, MIL	С	#14 PE/GIFHDLDPE SH FRPVC
4731R 0021000	1,000 FT	95.000 LB	RED	С	#14 PE/GIFHDLDPE SH FRPVC
4731R 0031000	1,000 FT	95.000 LB	ORANGE	С	#14 PE/GIFHDLDPE SH FRPVC
4731R 0061000	1,000 FT	95.000 LB	BLUE, LIGHT	С	#14 PE/GIFHDLDPE SH FRPVC
4731R 0071000	1,000 FT	95.000 LB	VIOLET	С	#14 PE/GIFHDLDPE SH FRPVC
4731R 0101000	1,000 FT	96.000 LB	BLACK	С	#14 PE/GIFHDLDPE SH FRPVC
4731R 0104000	4,000 FT	388.000 LB	BLACK		#14 PE/GIFHDLDPE SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

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METRIC MEASUREMENT VERSION

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