Detailed Specifications & Technical Data



4505R Coax - 4K Ultra-High-Definition Coax Cable for 12G-SDI



For more Information please call

1-800-Belden1



General Description:

12 GHz, 4K UHD Precision Video Cable, 75 Ohm, 20 AWG solid .032" silver plated copper conductor, gas-injected foam HDPE insulation, Duofoil® bonded to core + tinned copper braid shield (95% coverage), PVC jacket.

Usage (Overall) Suitable Applications:	SMDTE 2092 1 12		SMDTE 2091 1 6 Ch/	
	SIMPTE 2062-1 12	GD/S UHDTV,	SMPTE 2001-1 0 GD/:	s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p
Physical Characteristics (Overall) Conductor				
AWG:				
# Coax AWG Stranding Conductor Material Dia. (in.) 1 20 Solid SPC - Silver Plated Copper 0.032				
Total Number of Conductors:	1			
Insulation Insulation Material:				
Insulation Material Dia. (in.)				
Gas-injected FHDPE - Foam High Density Polyethylene .145				
Outer Shield Outer Shield Material:				
Layer # Outer Shield Trade Name Type Outer Shield Material		Coverage (%)	Description	
1 Bonded Duofoil® Tape Aluminum Foil-Polyester			Bonded to insulation	
2 Braid TC - Tinned Copper		95.000		
Outer Jacket Outer Jacket Material:				
Outer Jacket Material				
PVC - Polyvinyl Chloride				
Overall Cable				
Overall Nominal Diameter:	0.233 in.			
Mechanical Characteristics (Overall)				
Operating Temperature Range:	-30°C To +75°C			
Bulk Cable Weight:	31 lbs/1000 ft.			
Max. Recommended Pulling Tension:	52 lbs.			
Min. Bend Radius/Minor Axis:	2.500 in.			
Applicable Specifications and Agency Compliance (C)verall)			
Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	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):	01/01/2005			
EU Directive 2002/96/EC (WEEE):	Yes			
EU Directive 2003/11/EC (BFR):	Yes			
	Yes			
CA Prop 65 (CJ for Wire & Cable):				

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ENGLISH MEASUREMENT VERSION

4505R Coax - 4K Ultra-High-Definition Coax Cable for 12G-SDI

DCR @ 20°C (Ohm/1000 ft) 10.200 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) 3.400		e:	59/U
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4500.000	16.700
6000.000	19.700
12000.000	28.700

Max. Operating Voltage - UL:

Voltage 300 V RMS

Other Electrical Characteristic 2:

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
4505R N3U1000	1,000 FT	32.000 LB	GREEN, MIL		#20 PE/GIFHDLDPE SH FRPVC
4505R 0021000	1,000 FT	32.000 LB	RED		#20 PE/GIFHDLDPE SH FRPVC
4505R 0031000	1,000 FT	32.000 LB	ORANGE		#20 PE/GIFHDLDPE SH FRPVC
4505R 0061000	1,000 FT	32.000 LB	BLUE, LIGHT		#20 PE/GIFHDLDPE SH FRPVC
4505R 0071000	1,000 FT	32.000 LB	VIOLET		#20 PE/GIFHDLDPE SH FRPVC
4505R 0101000	1,000 FT	32.000 LB	BLACK		#20 PE/GIFHDLDPE SH FRPVC
4505R 0105000	5,000 FT	160.000 LB	BLACK		#20 PE/GIFHDLDPE SH FRPVC

Revision Number: 0 Revision Date: 04-12-2017

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product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).