

4855R Coax - 4K Ultra-High-Definition Coax Cable for 12G-SDI - Mini

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For more Information				
please call				

1-800-Belden1



General Description:

12 GHz, 4K UHD Precision Video Cable, 75 Ohm, 23 AWG solid .023" silver plated copper conductor, gas-injected foam HDPE insulation, Duofoil® bonded to the core + tinned copper braid shield (95% coverage), PVC jacket.

overage), i ve jaeket.					
sage (Overall)					
Suitable Applications:	Suitable Applications:SMPTE 2082-1 12 Gb/s UHDTV, SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p				
nysical Characteristics (Ove	rall)				
conductor AWG:					
# CoaxAWGStrandingConductor123SolidSPC - Silve	r Material Dia. (mm) er Plated Copper 0.584				
Total Number of Conductors:	1				
nsulation					
Insulation Material: Insulation Material					
Gas-injected FHDPE - Foam High De	Dia. (mm)				
Outer Shield Outer Shield Material:					
Layer # Outer Shield Trade Name	Type Outer Shield Material	Coverage (%) Description			
	Tape Aluminum Foil-Polyester Tape-Aluminum				
2	Braid TC - Tinned Copper	95.000			
Outer Jacket Material: Outer Jacket Material PVC - Polyvinyl Chloride					
Overall Nominal Diameter:	4.039 mm				
lechanical Characteristics (C)verall)				
Operating Temperature Range:	-30°C To +75°C				
Bulk Cable Weight:	25.299 Kg/Km	25.299 Kg/Km			
Max. Recommended Pulling Ter	nsion: 177.928 N	177.928 N			
Min. Bend Radius/Minor Axis:	40.640 mm	40.640 mm			
pplicable Specifications and	Agency Compliance (Overall)				
Applicable Standards & Environ	imental 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

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EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	11/08/2016
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:	Sub-miniature 59/U
Flame Test	
UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Aerial:	Yes - Black only, when supported by messenger wire.
Suitability - Burial:	No
Plenum/Non-Plenum	
Plenum (Y/N):	No
Impedance (Ohm) 75 Nom. Inductance: Inductance (μH/m) 0.351067 Nom. Capacitance Conductor to Shield: Capacitance (pF/m) 53.4803 Nominal Velocity of Propagation: VP (%) 82 Nominal Delay: Delay (ns/m)	
4.068 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 64.636 Nominal Outer Shield DC Resistance:	

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

• • • • •	
1.000	1.280
3.580	2.559
5.000	3.019
6.000	3.281
7.000	3.543
10.000	3.937

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12.000	4.265
25.000	5.906
55.000	8.531
67.500	9.285
71.500	9.613
88.500	10.565
100.000	11.123
135.000	12.599
143.000	13.124
180.000	14.469
270.000	17.849
360.000	20.802
540.000	25.756
720.000	29.824
750.000	30.448
1000.000	35.435
1500.000	43.309
2000.000	50.199
2250.000	53.480
3000.000	62.339
4500.000	77.432
6000.000	90.884
12000.000	135.177

Max. Operating Voltage - UL:

Voltage

300 V RMS

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
4855R N3U1000	1,000 FT	19.000 LB	GREEN, MIL		#23 PE/GIFHDPE SH PVC
4855R N3U10000	10,000 FT	170.000 LB	GREEN, MIL		#23 PE/GIFHDLDPE SH PVC
4855R N3U5000	5,000 FT	90.000 LB	GREEN, MIL		#23 PE/GIFHDLDPE SH PVC
4855R 0021000	1,000 FT	19.000 LB	RED		#23 PE/GIFHDPE SH PVC
4855R 00210000	10,000 FT	170.000 LB	RED		#23 PE/GIFHDLDPE SH PVC
4855R 0025000	5,000 FT	90.000 LB	RED		#23 PE/GIFHDLDPE SH PVC
4855R 0031000	1,000 FT	19.000 LB	ORANGE		#23 PE/GIFHDPE SH PVC
4855R 00310000	10,000 FT	170.000 LB	ORANGE		#23 PE/GIFHDLDPE SH PVC
4855R 0035000	5,000 FT	90.000 LB	ORANGE		#23 PE/GIFHDLDPE SH PVC
4855R 0041000	1,000 FT	19.000 LB	YELLOW		#23 PE/GIFHDPE SH PVC
4855R 00410000	10,000 FT	170.000 LB	YELLOW		#23 PE/GIFHDLDPE SH PVC
4855R 0045000	5,000 FT	90.000 LB	YELLOW		#23 PE/GIFHDLDPE SH PVC
4855R 0061000	1,000 FT	19.000 LB	BLUE, LIGHT		#23 PE/GIFHDPE SH PVC
4855R 00610000	10,000 FT	170.000 LB	BLUE, LIGHT		#23 PE/GIFHDLDPE SH PVC
4855R 0065000	5,000 FT	90.000 LB	BLUE, LIGHT		#23 PE/GIFHDLDPE SH PVC
4855R 0071000	1,000 FT	19.000 LB	VIOLET		#23 PE/GIFHDPE SH PVC
4855R 00710000	10,000 FT	170.000 LB	VIOLET		#23 PE/GIFHDLDPE SH PVC
4855R 0075000	5,000 FT	90.000 LB	VIOLET		#23 PE/GIFHDLDPE SH PVC
4855R 00910000	10,000 FT	170.000 LB	WHITE		#23 PE/GIFHDLDPE SH PVC

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4855R 0095000	5,000 FT	90.000 LB	WHITE		#23 PE/GIFHDLDPE SH PVC
4855R 0101000	1,000 FT	19.000 LB	BLACK		#23 PE/GIFHDPE SH PVC
4855R 01010000	10,000 FT	170.000 LB	BLACK		#23 PE/GIFHDLDPE SH PVC
4855R 0105000	5,000 FT	90.000 LB	BLACK	CZ	#23 PE/GIFHDPE SH PVC

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.

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