

DSM_UHD Series

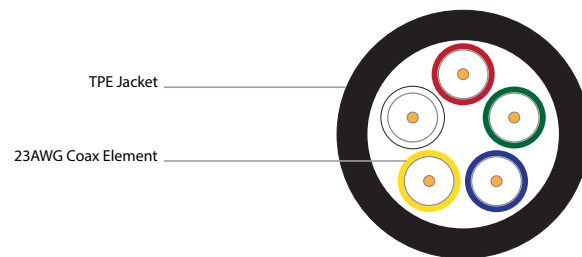
Miniature 23AWG 12GHz 8K Digital Video Coax Snake Cables


 Part Number: **DSMxUHD**

Description: 12GHz 8K Multi-Channel Digital Video Coax

Materials & Dimensions

Center Conductor	(1) 23AWG Solid BC .023" O.D. Silver plated copper
Dielectric	Gas-Injected Foam PE .100" OD
Shield	100% Aluminum Foil / 95% TC Braid
Coax Jacket	Low Pressure, Easy Strip PVC
Overall Jacket	Black TPE (see below for overall cable diameters)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Operating Temperature
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21 dB (1.5GHz - 4.5GHz) >15 dB (4.5GHz - 6GHz)	Conductor: 20 Ω/Mft Shield: 7.6 Ω/Mft	16.4 pF/ft	83%	-30°C to 80°C

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz	6 GHz	12 GHz
Attenuation dB/100 feet	0.38	0.78	1.2	3.0	3.8	5.4	6.2	9.3	10.5	13.0	16.0	18.5	22.8	28.9	41.2
Attenuation dB/100 meters	1.3	2.6	3.9	9.8	12.5	17.7	20.3	30.5	34.4	42.6	52.5	60.7	74.8	94.8	135.2

Data Rate	270 Mb/s SMPTE 259	360 Mb/s SMPTE 259	1.5 Gb/s SMPTE 292	3 Gb/s SMPTE 424	6 Gb/s SMPTE ST1081-1	12 GB/s SMPTE ST2082
Maximum Distance (typical)	790'	681'	185' - 315'	135' - 211'	214'	302'

Product Variations

Part Number	Number of Coax Elements	Coax Color Code	Overall Diameter	Weight	Bend Radius
DSM5UHD	5	Red, Green, Blue, Yellow, White	.550'	158 lbs/Mft	5.5"
DSM10UHD	10	Red, Green, Blue, Yellow, White Brown, Orange, Violet, Grey, Black	.790	316 lbs/Mft	7.9"
DSM16UHD	16	Magenta, Marine Blue, Pebble Grey, Turquoise, White, Black, Sky Blue Brown, Yellow, Green, Grey, Orange Pink, Red, Lilac, Ivory	.874'	341 lbs/Mft	10.49"

The DSM_UHD series coax snake cables feature precision 12GHz miniature 23AWG coaxes for 8K and 4K UHD transmission data rates, standard SDI or high resolution video applications. Each coax element meets or exceeds SMPTE standards for digital video formats up to 12Gb/s Digital UHD. Also built for easy termination, the DSM_UHD series coaxes have easy-to-strip outer jackets and dielectrics that streamline connector termination. The outer jacket is extruded from a flexible, rugged and abrasion resistant TPE compound that is ideal for portable and staging applications.

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