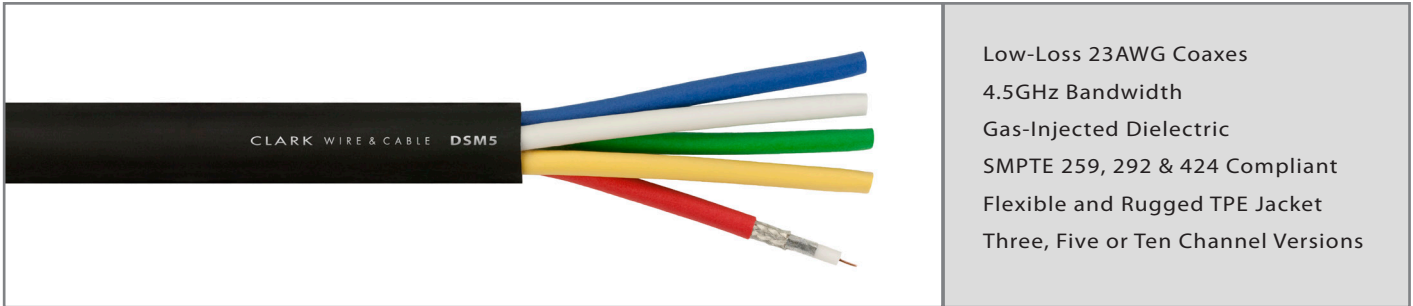


PRODUCT BULLETIN

#25302

DSM Series Miniature 23AWG HD/SDI 75Ω Coax Snake Cables



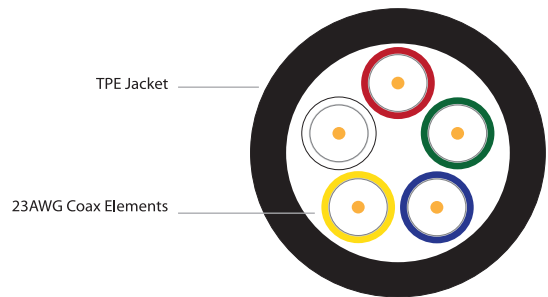
Low-Loss 23AWG Coaxes
 4.5GHz Bandwidth
 Gas-Injected Dielectric
 SMPTE 259, 292 & 424 Compliant
 Flexible and Rugged TPE Jacket
 Three, Five or Ten Channel Versions

Part Number Overview

Part Number: **DSMx** (see below for variations)
 Description: 75Ω Miniature 23AWG HD/SDI Coax Snake Cables

Materials & Dimensions

CONDUCTORS	(1) 23AWG Solid BC .023" O.D. (per coax element)
INSULATION	Gas-Injected Foam PE .100" O.D.
SHIELD	100% Aluminum Foil 95% TC Braid
COAX JACKET	Low Pressure, Easy Strip PVC, .159" O.D.
OVERALL JACKET	Black TPE (see below for overall cable diameters)



Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Operating Temperature	Listings
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 20 Ω/Mft Shield: 7.6 Ω/Mft	16.4 pF/ft	83%	-30°C to 75°C	CMR/CMG C(UL)US FT-4 (CSA)

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
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
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

HD/SDI Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Maximum Distance (typical)	790'	681'	185' - 315'	135' - 211'

Actual distances may vary with each system. Typical lengths listed only serve as a guideline based upon SMPTE 259M, 292M and 424M standards. Individual system testing is recommended to determine actual maximum transmission distances.

Product Variations

Part Number	Number of Coax Elements	Coax Color Code	Overall Diameter	Weight	Bend Radius
DSM3	3	Red, Blue, Green	.465"	115 lbs/Mft	4.7"
DSM5	5	Red, Blue, Green, Yellow, White	.550"	158 lbs/Mft	5.5"
DSM10	10	Red, Blue, Green, Yellow, White, Brown, Orange, Violet, Grey, Black	.790"	316 lbs/Mft	7.9"

The DSM series coax snake cables feature precision 4.5GHz miniature 23AWG coaxes for HD/SDI, standard SDI or high resolution video applications. Each coax element meets or exceeds SMPTE 259M, 292M and 424M standards for high-definition digital video formats. Also built for easy termination, the DSM 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 and UL rated for permanent installation.