

Falmat XTREME-MARINE™ Subsea SDI/HD Video Coax



Subsea video coaxial cables are designed for marine applications from 200m to 7km depth ratings. These coaxial designs are capable of HD video, when properly terminated, with varied length capabilities. "Xtreme-Marine™ HD" coax designs can be ordered single coax with Polyurethane jacket or designed into any custom subsea cable construction, adding power & control conductors, strength layers, armoring or Neutral buoyant constructions.

CONSTRUCTION

CONDUCTORS:

Stranded copper for longer flex life

SHIELDS:

Braided tin copper 95% +Alm tape

DIELECTRIC:

Solid PE blend with 90C rating

JACKETS:

Inner jacket of TPE with good IR to water.
Outer Jacket of Xtreme-Grade PUR 90C rated, with short term to 110C

FALMAT P/N	COAX TYPE	MAX DEPTH	AWG (STR)	Zo IMP.	DIELECTRIC DIA.	SHLD OD BRD DIA.	INNER JKT DIA.	XPUR FIN. DIA.
FM030115-1	Shallow RG59	200m	21(7)	75	0.145	0.185	0.242	0.304
FM030115-2	Shallow RG6	200m	19(7)	75	0.180	0.222	0.276	0.338
FM030115-3	Hi-Flex RG59	3km	22(19)	72	0.180	0.206	0.242	0.304
FM030115-4	Deep Mini RG59	7km	26(7)	75	0.105	0.128	0.160	0.222
FM030115-5	Deep RG59	7km	23(7)	75	0.147	0.170	0.212	0.274
FM030115-6	Deep RG11	7km	18(7)	75	0.270	0.297	0.344	0.406

FALMAT P/N	COAX TYPE	MAX DEPTH	AWG (STR)	Attenuation vs. MHz db/100ft			
				10	100	750	1500
FM030115-1	Shallow RG59	200m	21(7)	1.0	3.1	8.4	11.8
FM030115-2	Shallow RG6	200m	19(7)	0.8	2.4	6.7	9.5
FM030115-3	Mid-Depth RG59	3km	22(19)	1.2	3.7	10.1	14.3
FM030115-4	Deep Mini RG59	7km	26(7)	1.6	5.1	14.0	19.8
FM030115-5	Deep RG59	7km	23(7)	2.1	4.6	10.9	15.1
FM030115-6	Deep RG11	7km	18(7)	0.6	2.0	5.5	7.8

FALMAT P/N	COAX TYPE	MAX DEPTH	AWG (STR)	Maximum Transmission Distance (Feet) at Serial Data Rates					
				SDI 143 Mb/s	SDI 177 Mb/s	SDI 270 Mb/s	SDI 360 Mb/s	HD-SDI 1.5 Gb/s	HD-SDI 3.0 Gb/s
FM030115-1	Shallow RG59	200m	21(7)	1162	1045	846	733	239	169
FM030115-2	Shallow RG6	200m	19(7)	1454	1307	1058	916	299	212
FM030115-3	Mid-Depth RG59	3km	22(19)	958	861	697	604	197	139
FM030115-4	Deep Mini RG59	7km	26(7)	695	625	506	438	143	101
FM030115-5	Deep RG59	7km	23(7)	748	688	580	515	183	133
FM030115-6	Deep RG11	7km	18(7)	1762	1584	1282	1111	363	256

Notes:

* This preliminary product data release is under engineering review and values are subject to change before official Release. Attenuation values are based on BNC/ TNC type terminations, using best procedural control with lowest VSWR results.

