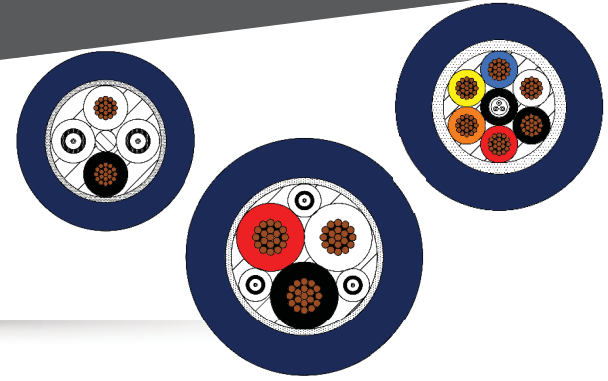


# Xtreme-Marine<sup>®</sup> EO

## Electro-optic Underwater Cable



### Application

Falmats Subsea fiber + power cable designs can be used for a multitude of underwater applications to from shallow, rugged shorelines to deepwater installations to depths of 6km. A sample offering of our more common designs below, can also be modified with additional fibers, larger conductors, higher voltage, increased workloads, or addition of steel armoring.

### Design

Tried and proven materials are carefully chosen for long term exposure and submergence in marine environments of sea or fresh water, polar to tropical, fully water blocked with pressure resistant design to 6km depths.

#### Cable Properties

- Fiber Optics:** Single mode type SMF28E 9/125 micron, Multimode 62.5/125 micron, also available 50/125 micron Fiber components: Xtreme-Light PUR Simplex fiber, Xtreme-Light PUR Multi-fiber 3,4 or 6 fiber or SS steel tube 3 to 72 fiber.
- Conductors:** Insulated with premium copolymer insulation with excellent long term moisture resistance. -20C to 90C, 600VDC typical with 1kv, 1,5kv, 3kv, 4.5kv to 3.5kb also available. Higher temperature insulations are offered at 105C, 125C, 150C, 200C
- Strength Members:** Synthetic fibers of Kevlar or Vectran in braid or torque balance served layers. Typical BS values for marine instrumentation as listed. Higher strength designs up to 36k lbs can be ordered. Steel armor, GIPS dual serve can also be added.
- Jackets:** Xtreme-Marine grade Polyurethane 90C is standard. Other available jackets of HDPE, Light weight TPE, foam jackets for buoyancy. Also available high temperature jackets 105C, 125C, 150C, 200C

PART NUMBER	FIBER OPTIC	POWER COND.	WALL	CORE	VDC	BS	WALL	DIA.
FM021814-1	2x SMF Xtremelight	2x 18AWG	0.022	0.228	2.0 kv	1400	0.055	0.360
FM021814-2	2x SMF Xtremelight	2x 16AWG	0.018	0.228	1.0 kv	1400	0.065	0.380
FM021814-3	2x SMF Xtremelight	2x 14AWG	0.010	0.228	600 v	2700	0.065	0.392
FM021814-4	3x SMF Xtremelight	2x 12AWG	0.055	0.444	4.0 kv	2700	0.075	0.625
FM021814-5	3x SMF Xtremelight	2x 10AWG	0.040	0.444	3.6 kv	2700	0.090	0.655
FM021814-6	3x SMF Xtremelight	2x 8AWG	0.040	0.444	3.6 kv	4000	0.090	0.670
FM021814-7	3x SMF SS-Tube Core	6x 22AWG	0.010	0.160	600 v	2700	0.052	0.292
FM021814-8	3x SMF SS-Tube Core	6x 20AWG	0.006	0.160	300 v	2700	0.070	0.332
FM021814-9	3x SMF SS-Tube Core	6x 18AWG	0.016	0.246	1.0 kv	4000	0.080	0.455
FM021814-10	3x SMF SS-Tube Core	6x 16AWG	0.016	0.280	1.0 kv	4000	0.090	0.475

\* This preliminary product data release is under engineering review and values are subject to change before official release.

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