

Sub-Sea ROV Tethers & Umbilical Cables



SUB-SEA ROV TETHER & UMBILICAL CABLES

Falmat Custom Cable Technologies, an ISO9000/AS9100 Certified Organization, is a global solution provider offering a comprehensive range of highly engineered ROV cables for Sub-sea and marine environments.



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Our team of cable designers work closely with our each customers application demands to provide the most reliable cable solution for today's high performance ROVs used in Oil and gas exploration and production, defense, oceanographic and a host of marine applications. Falmat cable designs are created for optimizing the mechanical, electrical and optical performance of cables in demanding subsea projects. Falmat ROV cables are trusted and preferred worldwide for high quality and reliability.

- Light weight, Long length Free swimming tethers for Excursion
- Rugged deck cables
- ROV mounted cables such as Video, Instrumentation, control and Power
- Heavy lift steel umbilical cables up to 180,000 lbs BS
- Light weight and heavy Tethers for "TMS" Tether management systems to 80,000 lbs BS
- Neutrally buoyant Excursion Tethers for TMS and LARS

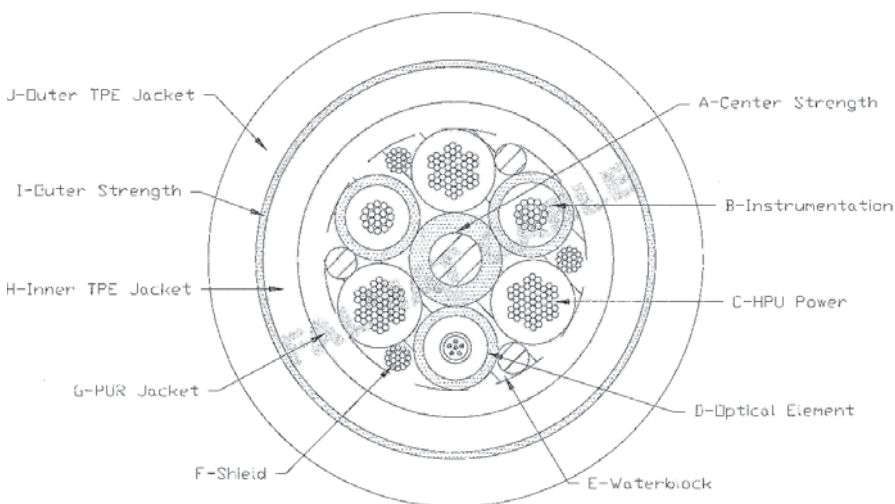
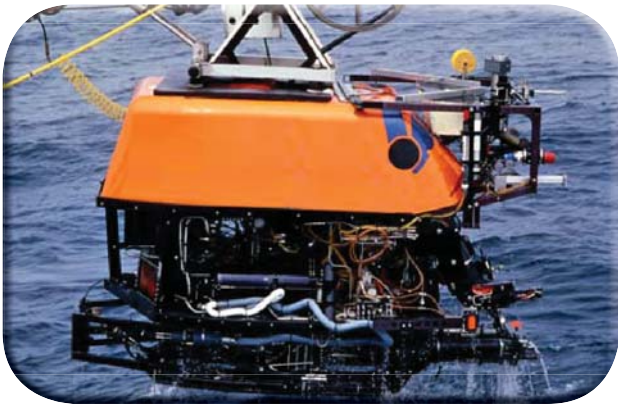
Light/Medium Work Class ROV



Cable Components and Materials:

- Optical fibers in SS steel tubes from 1-24 fibers, single mode, multi-mode, mix modes, custom specific fibers
- Optical fibers in Simplex or cable Xtreme-Light construction, Durable Xtreme-Light from 1x to 6 fiber constructions
- Data signals using Ethernet Cat5e and Cat6 signal pairs, RS-232, RS-485, analog, coaxial, shielded components
- Power conductors from 300V to 4.5 kv, carefully chosen insulations specific to application
- Water block flooding compounds offered to each specific design are light wgt and fully encapsulating, design for extreme ocean depths and pressures, salt and oil resistant elastomeric and thermosetting
- Strength layers of Synthetic fibers including Kevlar, Twaron, Vectran and Dynema. Each Strength attribute is carefully designed to account for each customers application, considering, optimizing torque balance, handing system, bend radius, drive mechanism, duty cycles, ocean regions, sea states, safe work loads and tensions common and extreme.
- Jacketing compounds are also specific to each application. Falmat carefully chooses each thermoplastic compound and process to best fit cable end use, using Polyurethane, Xtreme-Grade Polyurethane, Hytrel, PE, HDPE, Light weight TPE, TPV, and foam PE or Foam PUR for flotation layers. Sectional applied flotation layers can be applied.
- Steel armor constructions of Double or triple layer, torque balance constructions using Galvanized improved Plough steel "GIPS", Extra improved "GEIPS", Stainless Steel, Nitronic 50 and other alloys for lift umbilical's

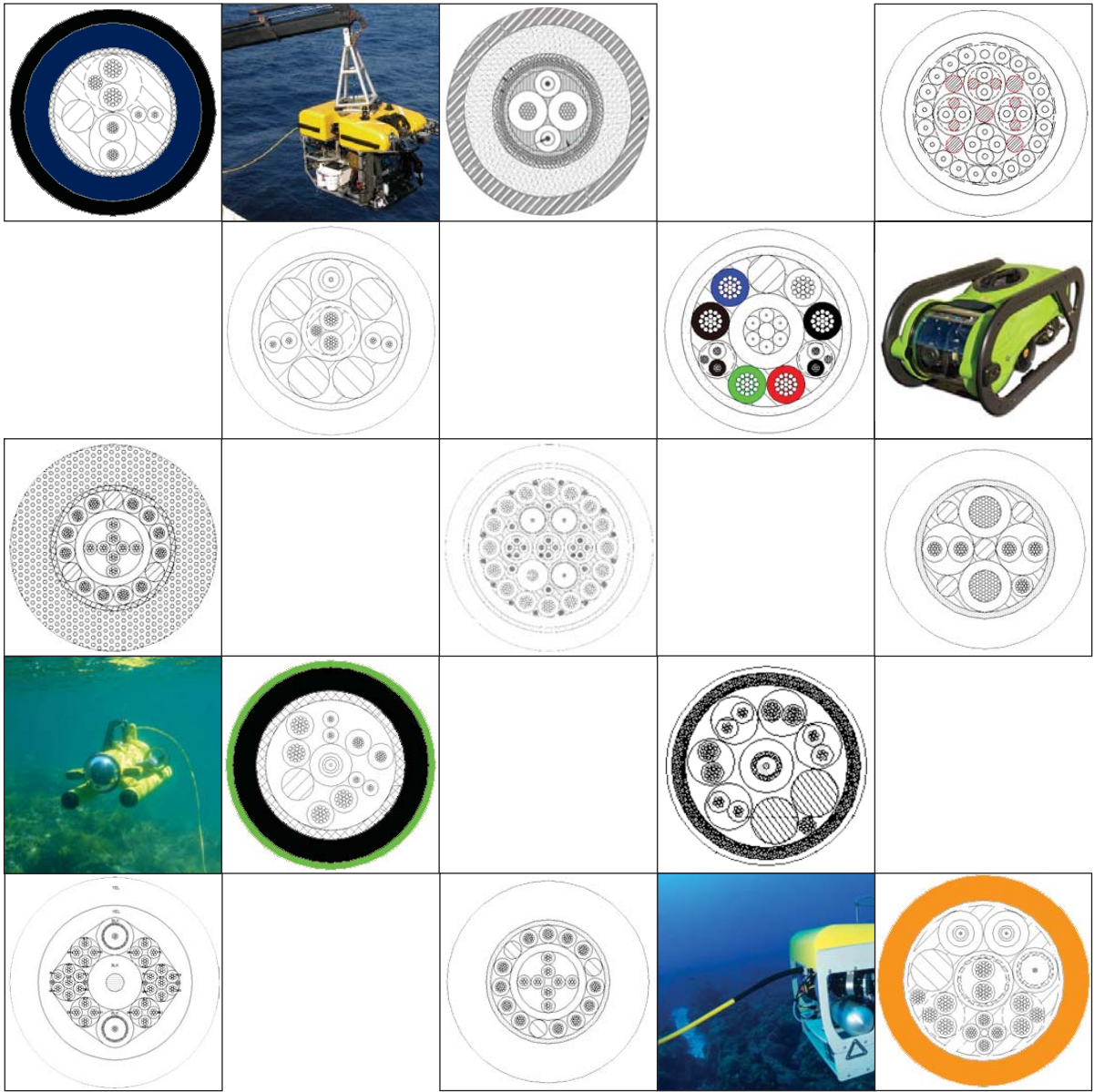
Heavy Work Class ROV



Testing:

Falmat performs cable integrity test validation for each tether. New design and test validation projects can be offered with extensive testing of cable strength layers such as Ultimate Break strength, bend cycling fatigue, low tension cycle fatigue, torque and rotation, hydrostatic, as well as all optical, electrical Hi-Pot and third party certification available.

Falmat is the smart choice for all your ROV cable needs... Visit our web site: www.falmat.com or contact our main sales office in California, USA for design consultation and to receive a prompt quotation.



WWW.FALMAT.COM

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