SUBMARINE CABLES

FOR THE FISH FARMING MARKET （AQUACULTURE INDUSTRY）

Working with submarine cable installations require cables that are adapted to extreme conditions. We have extensive experience in customized cables that meet all the requirements for this environment.In recent years, we have developed completely new designs and solutions for the growing fish farming industry .

OUR ADVANTAGES

EASY SOLUTIONS

ADAPTABILITY IS ONE OF OUR BEST QUALITESIT PERMIT US TO COPE WITH YOUR REQUE STON A SHORT NOTICE AND EFFEC TIVELY.

NO PRICE FIGHTS

WE ESCAPED THE OLASSICAL REBATE UNTILYOU DROP " POLICY . WE ARE PRICE WISE SINCETHE BEGINNING

HIGH LEVEL EXPERIENCE

OUR TECHNLAL CAPABILITIES HAVE BEENTESTED FOR MORE THAN 30 YEARS ANDIN-DIRECT CONNECTION WITH END USERS . SO TOSAY

ENDLESS INVESTIGATION

WE CONTINUOUSY MEASURE EVERYTHINGTEST . TEST AND TESTAGAIN . THIS HELPS NUNDERSTAND RISKS AND REWARDS . ANDBEPREPARED

NO FORTUNE TELLER

WE BASE OUR DECISIONS ON CLEAR BUSIESSPLANS , THINKING BEFORE MAKING OUR STEPSAND KEEPIN-GA'NOTTODO LISTFOR EVERY-OVE OF THEM

TEAM BUILDING

OUR TEAMIS MADE NOT ONLY BY OUR STAFFBUTIT INCLUDES ALSO ALL OUR CUSTOMERSWEACT LIKEA TEAM WEGROW LKEA TEAMWE WINLIKE A TEAM

SUBMARINE CABLES

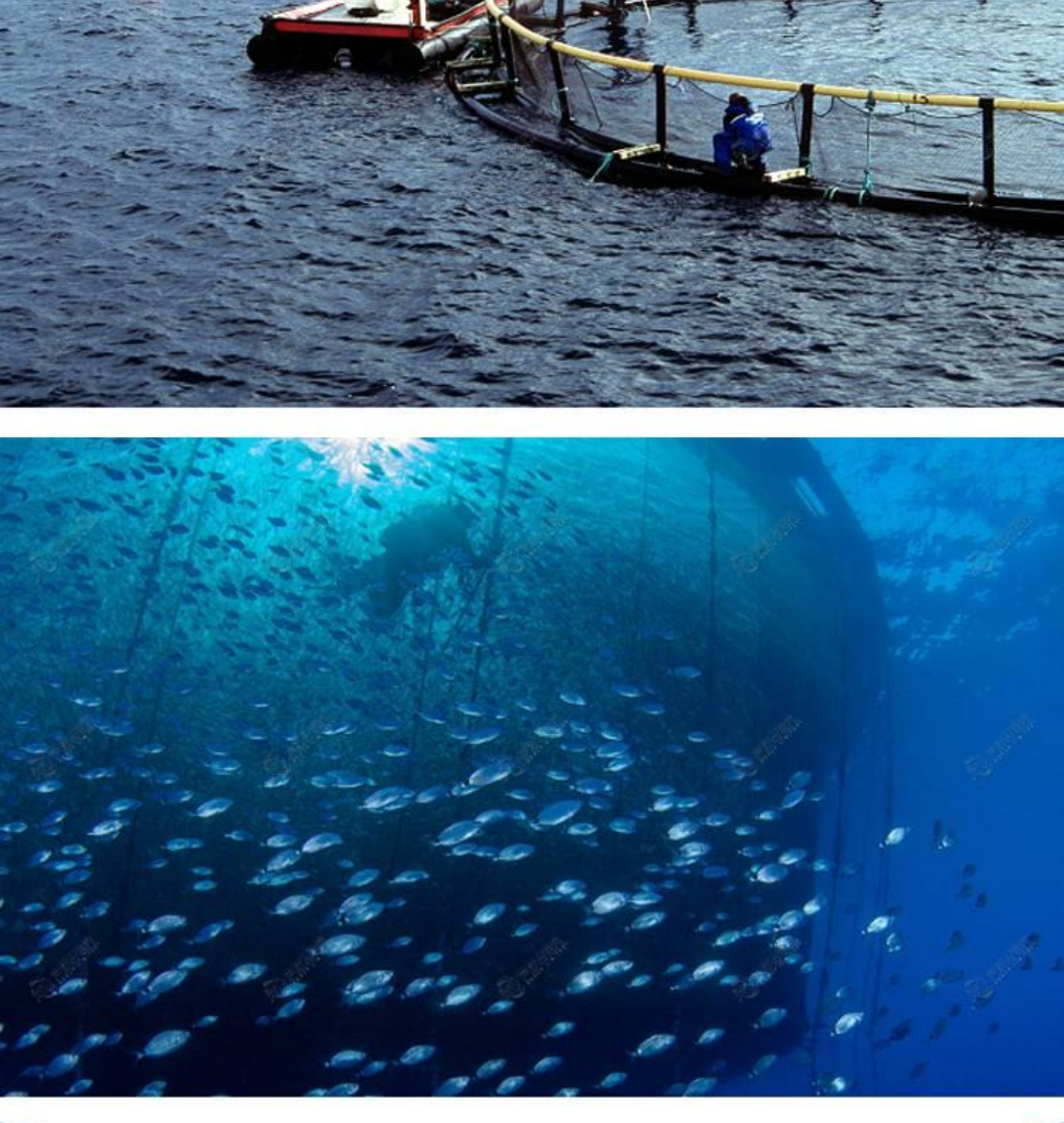
Farming fish, shellfish and aquatic plants is one of the world's fastest-growing food sectors, it already provides the planet with about half of all the fish we eat. The Aquaculture sector is mainly composed of SMEs or micro-enterprises in coastal and rural areas, and in Europe, it accounts for about 20% of fish production.

Monitoring and maintaining aquaculture infrastructures with remote operated vehicles inspection technology must be supported by reliable and resilient cables to withstand regular use in fish farming underwater facilities.

We offers a wide range of custom cables, robust cables for the harsh environment they are working in and the most flexible ones perfectly suiting diverless ROV multiple tasks (mooring inspection, net maintenance, cleaning, water and sediment sampling, mort removal).

Designed and manufactured to be watertight and long-lasting, custom tethers and umbilicals can be negative, positive or neutral buoyant as required. To guarantee high tensile forces at a low weight they can be supplied with incorporated aramid yarn or polyester fibers.

From thin and lightweight single conductor or simple coaxial cable to Polyurethane, Polyethylene or Silicon rubber multi conductors,RV POWER ' s ROV custom cables address a full spectrum of ROV underwater performance challenges in extreme conditions of aquaculture industry.

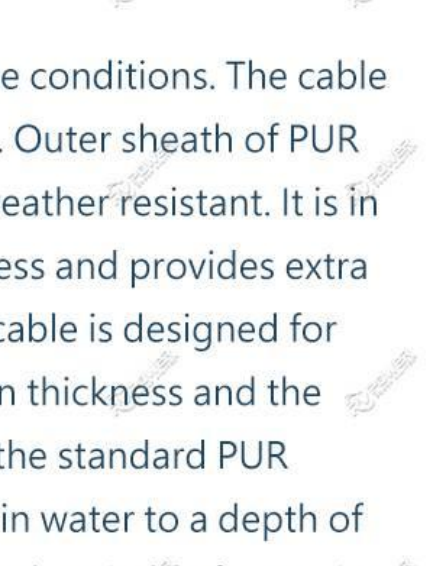


PRODUCT MIX

APPLICATIONS:

Flexible unarmoured subsea cable specially designed for fish farming industry. For power and communication typically from feed-barge to fishcages and similar applications. Aqualine Fish Farm combines flexible PE insulated tinned class 5 copper conductors with the very tough overall sheathing material combination of extruded PUR and PE. Fiber optic cable element with OEM single mode fibres included in interstice.

PROPERTIES:	
Conductor temperature	+90°C
Temperature range	-30 to +70°C
Voltage rating Uo/U	0,6/1kV



APPLICATIONS:

It is designed for use under extreme conditions. The cable design includes a fiber optic cable . Outer sheath of PUR makes the cable oil resistant and weather resistant. It is in general resistant to mechanical stress and provides extra protection for the fiber cable. The cable is designed for 0,6/1kV, which makes the insulation thickness and the outer sheath diameter larger than the standard PUR cables. It is suitable for installation in water to a depth of 300 meters which makes it particularly suitable for use in the fish farming industry

PROPERTIES:	
Conductor temperature	+90°C
Temperature range	-40 to +85°C
Voltage rating Uo/U	0,6/1kV

APPLICATIONS:

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cable is designed for 0,6/1kV, with thicker insulation and outer sheath than the standard PUR cables. It is in general resistant to mechanical stress and is suitable for installation to a depth of 300 meters making it particularly suitable for use in the fish farming industry

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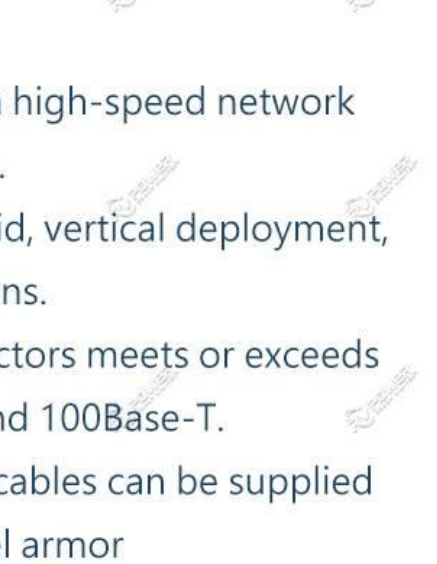


APPLICATIONS:

It is designed for use underwater date transfer . Outer sheath of PUR makes the cable oil resistant and weather resistant. The cable is designed for 300/500V, CAT5E /CAT6 Network Cable , with thicker insulation and outer sheath than the standard PUR cables. It is in general resistant to mechanical stress and is suitable for installation to a depth of 200 meters making it particularly suitable for use in the fish farming industry

Cables featuring:

· Max Depth Rating of 200m.

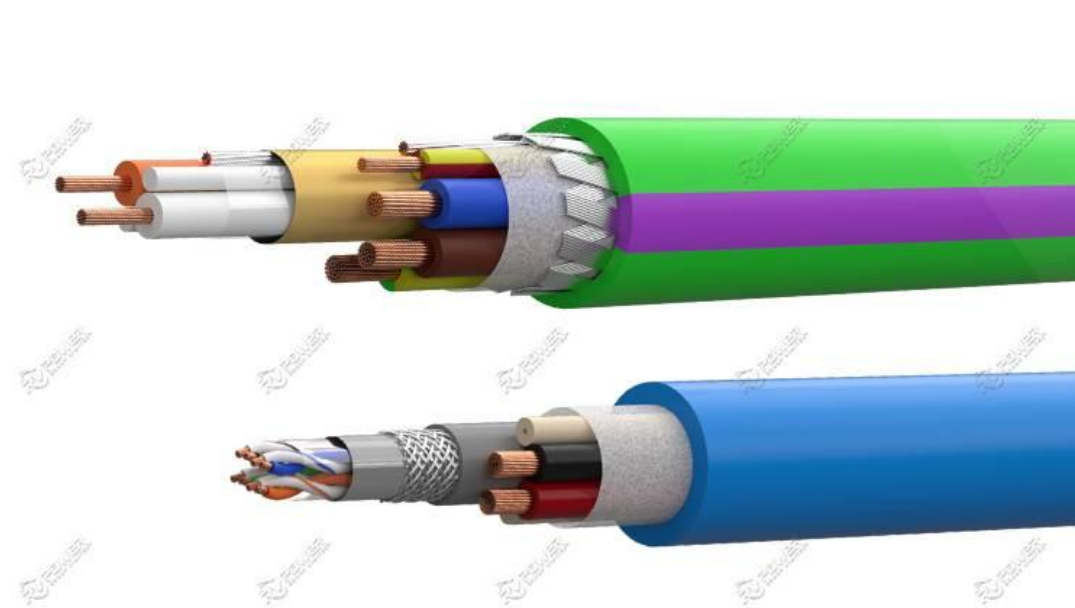
· Extreme ruggedness, yet flexible water-blocked construction.

· Designed for underwater use with high-speed network data, video, and sensor equipment.

· Cables can be used for bottom-laid, vertical deployment, winch systems, and ROV applications.

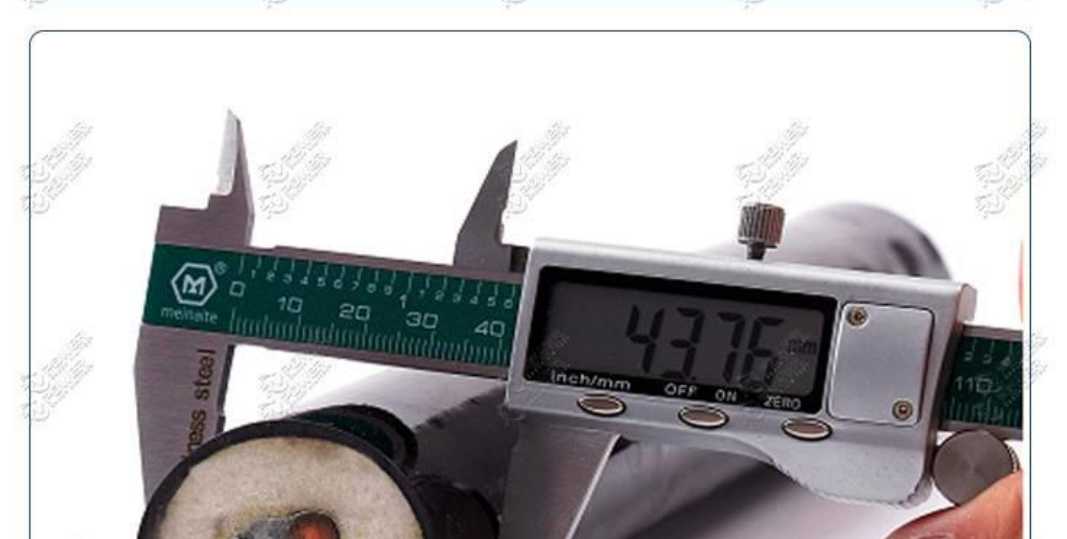
· Our Cat 5e 4 pair stranded conductors meets or exceeds TIA 568-B. Suitable for 10Base-T and 100Base-T.

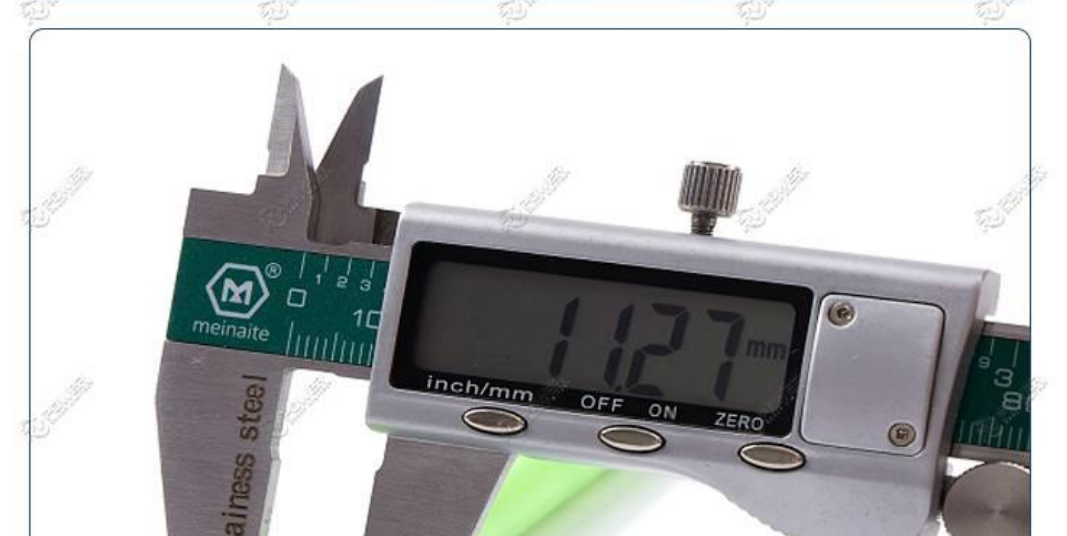
· Custom variations of these listed cables can be supplied with added breaking strength, steel armor package, additional jackets, or neutrally buoyant constructions.

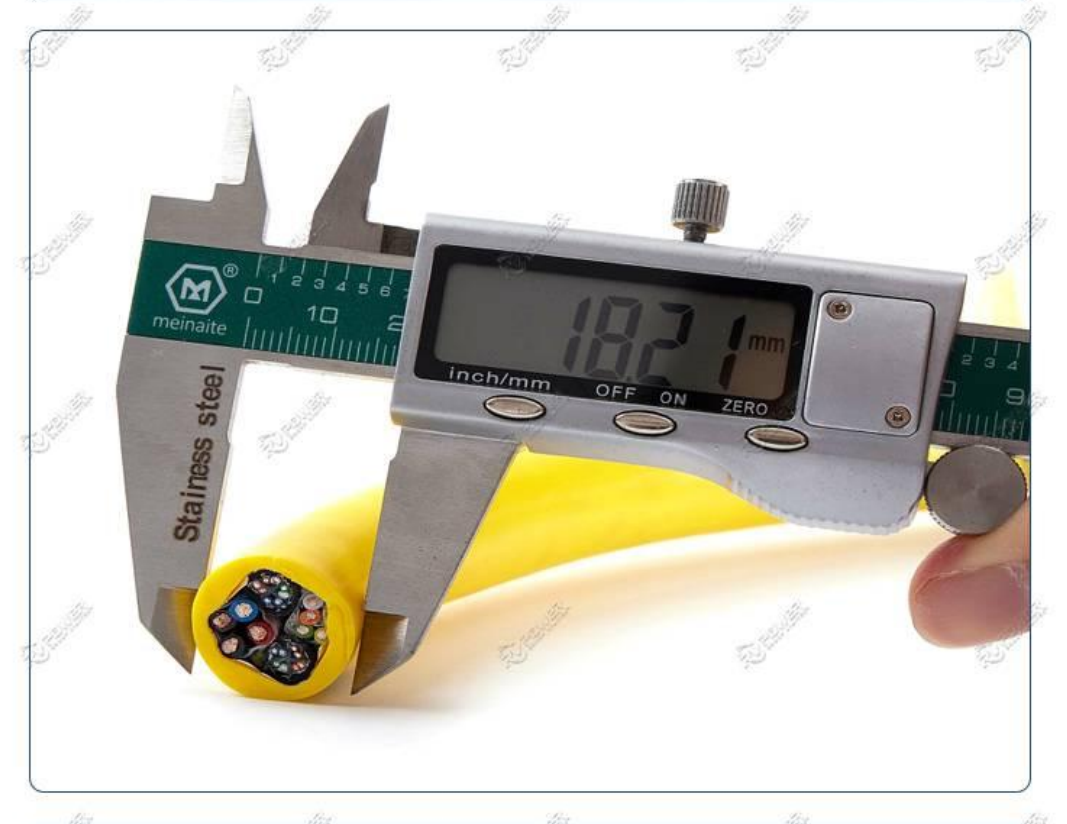


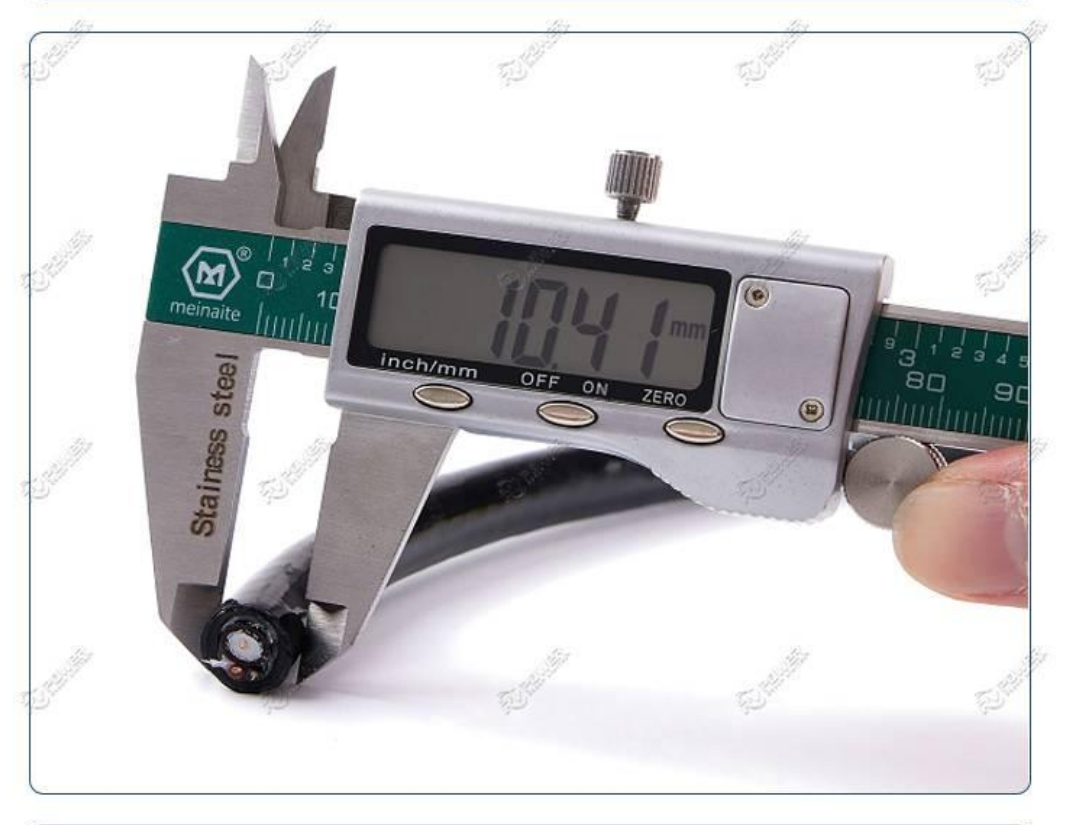
Custom Design Solutions

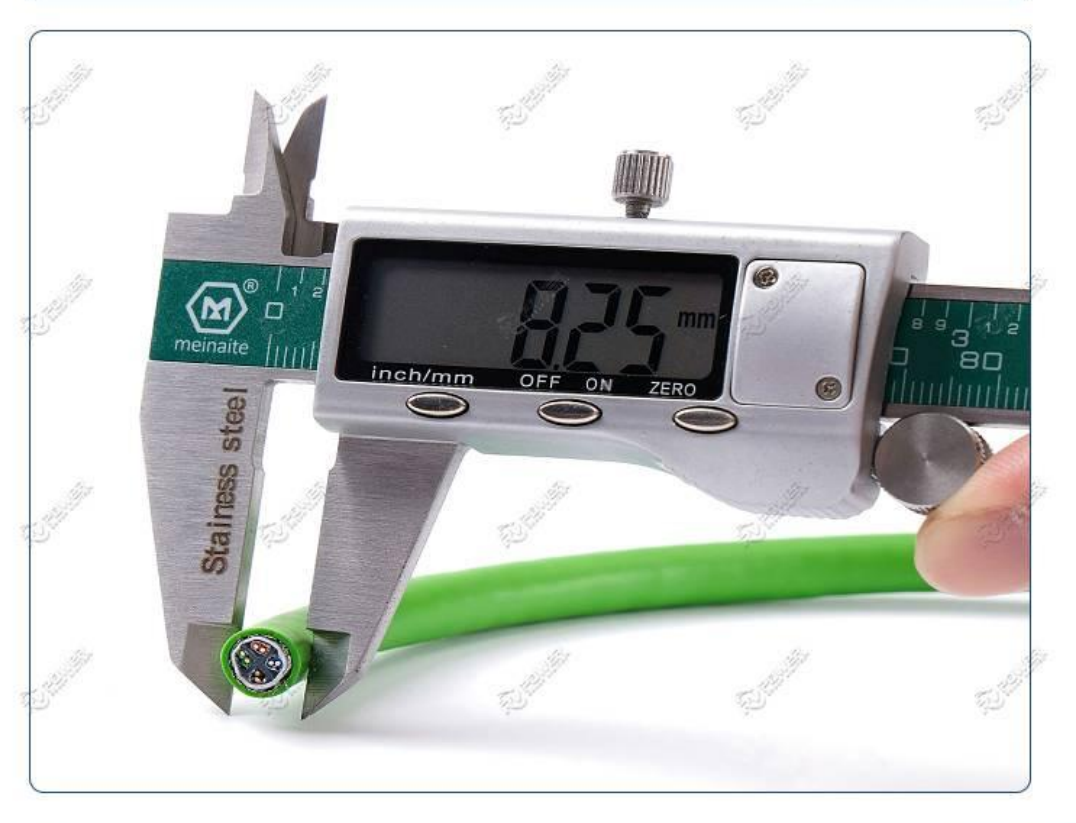
We manufacture special cables for fish farming applications like remote net cleaners, cage monitoring camera systems, ROVs and similar. The cables can contain power cores, fibre optics, twisted pairs, coax,cat5e/ cat6 etc and EMC shielding to reduce noise interference on electronics. Depending on client requirements the cables can be designed neutral or floating in water, armoured with aramid braid for tensile strength and with overall outer sheath materials tailored for the actual application.

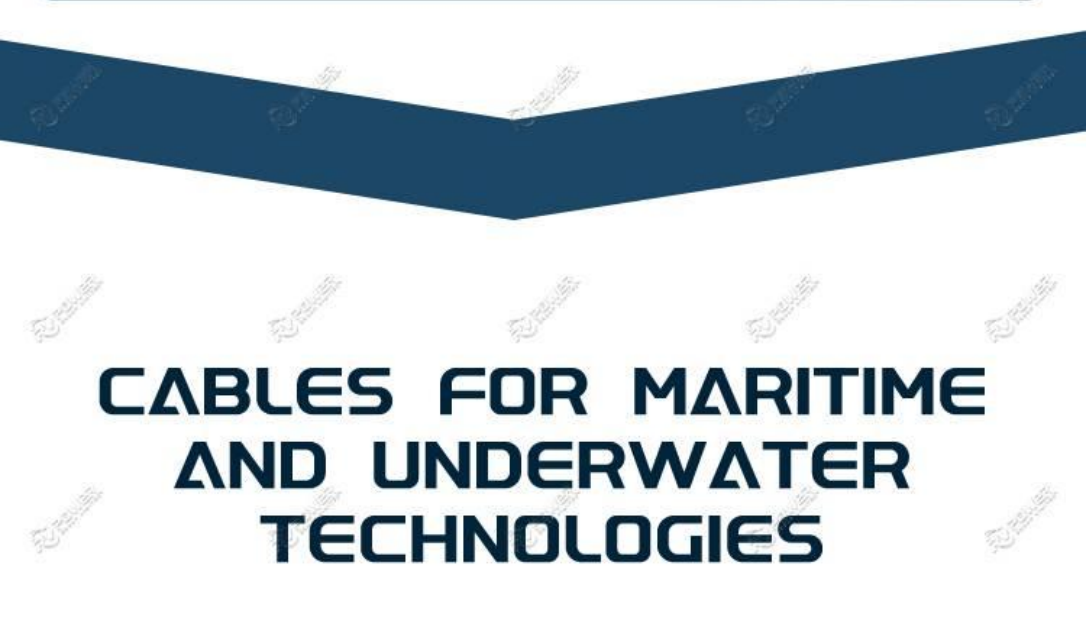


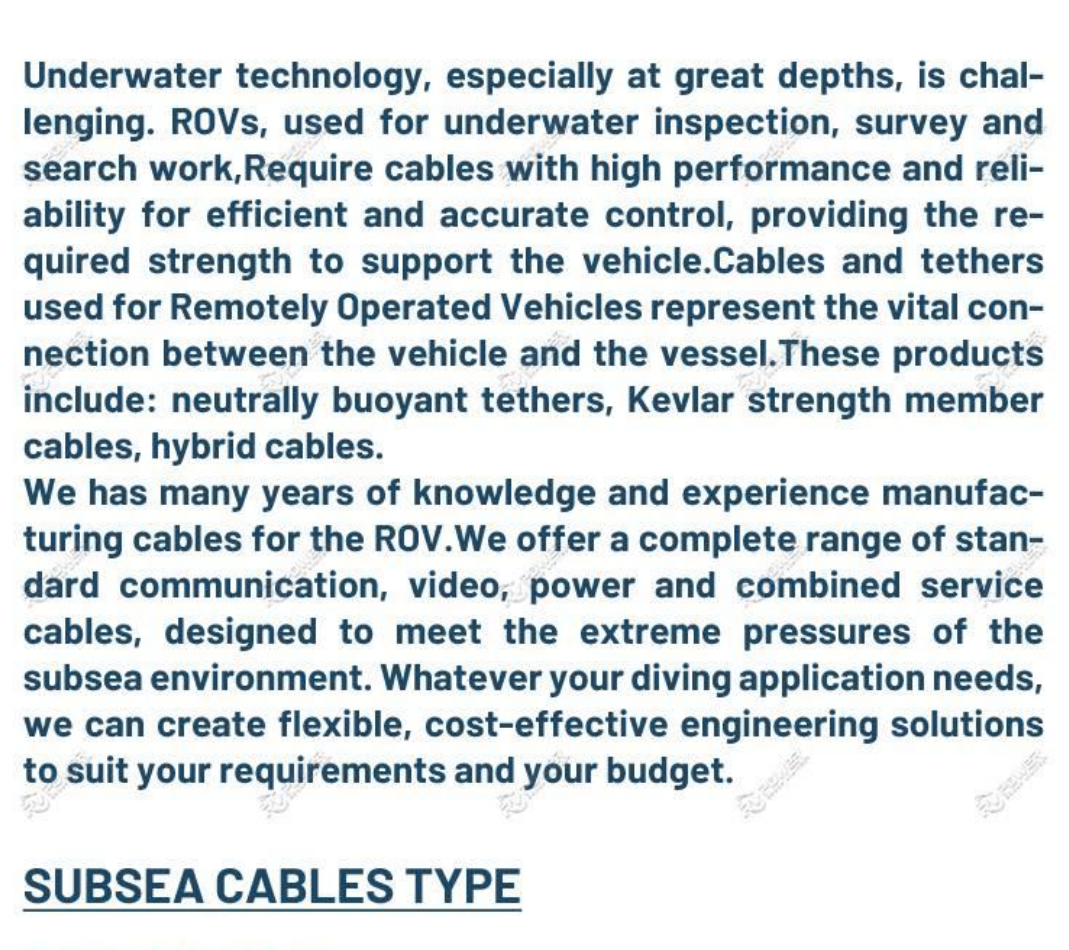












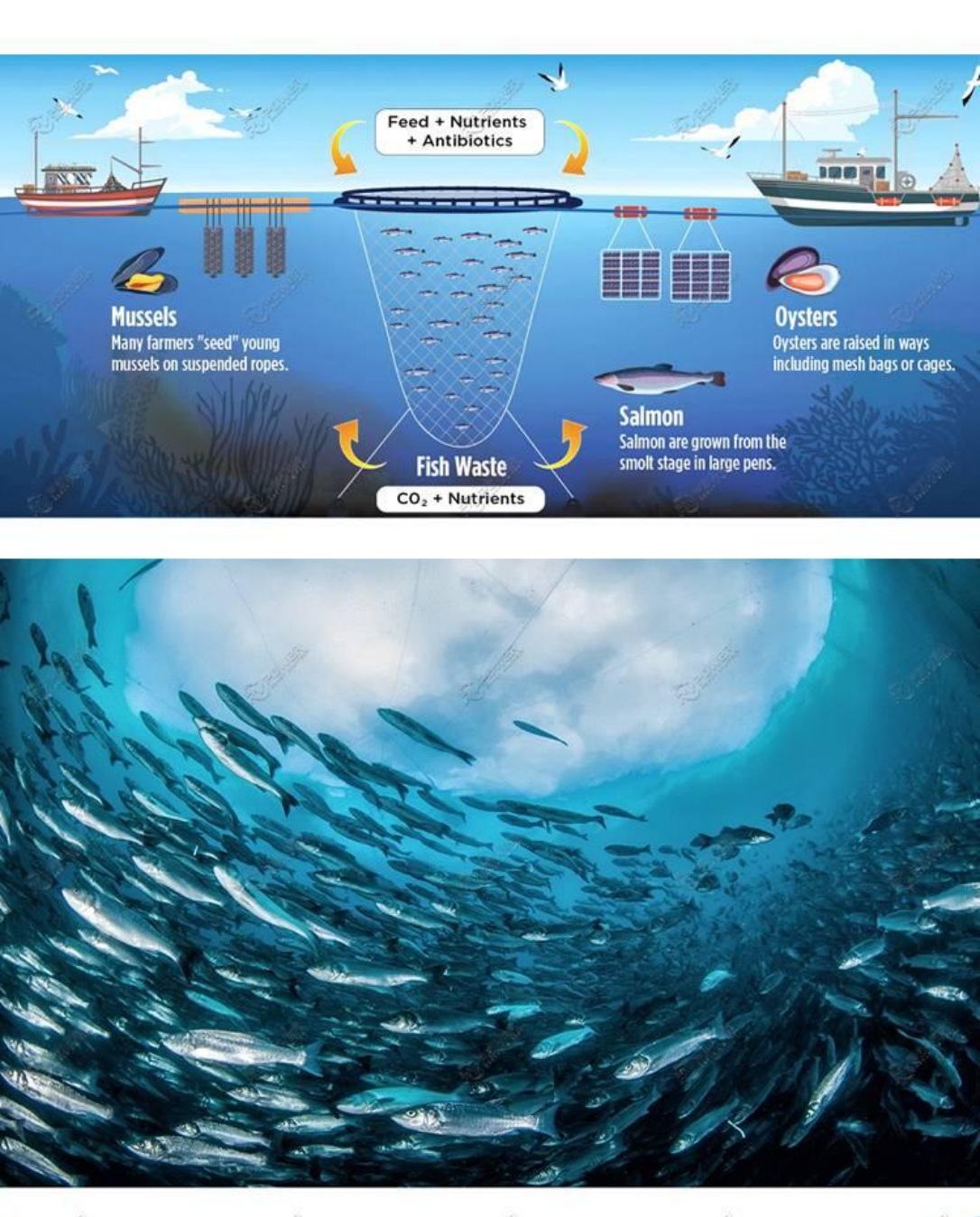
CABLES FOR MARITIME AND UNDERWATER TECHNOLOGIES

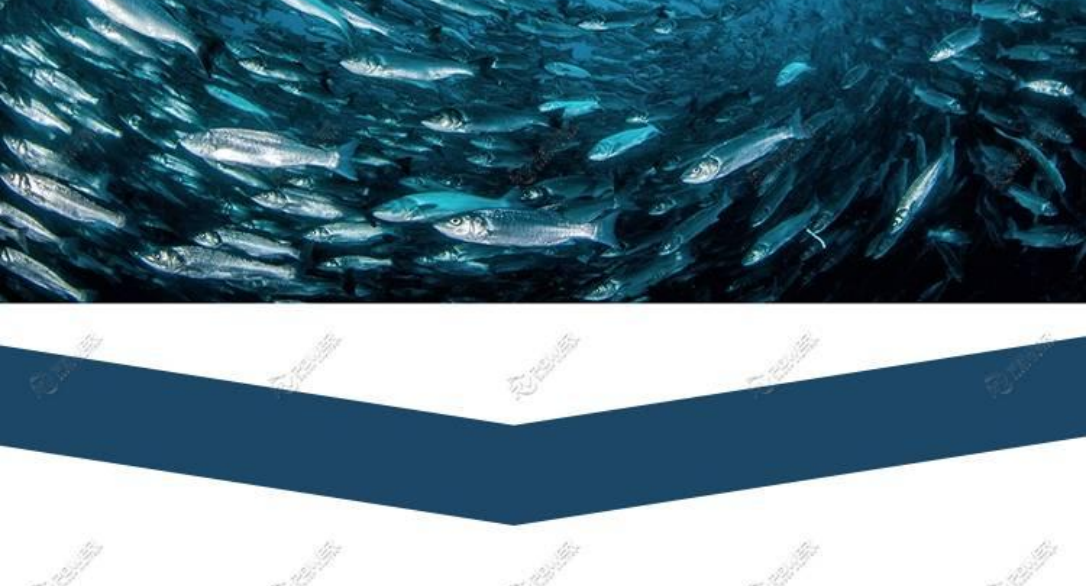
Underwater technology, especially at great depths, is challenging. ROVs, used for underwater inspection, survey and search work,Require cables with high performance and reliability for efficient and accurate control, providing the required strength to support the vehicle.Cables and tethers used for Remotely Operated Vehicles represent the vital connection between the vehicle and the vessel.These products include: neutrally buoyant tethers, Kevlar strength member cables, hybrid cables.

We has many years of knowledge and experience manufacturing cables for the ROV.We offer a complete range of standard communication, video, power and combined service cables, designed to meet the extreme pressures of the subsea environment. Whatever your diving application needs, we can create flexible, cost-effective engineering solutions to suit your requirements and your budget.

SUBSEA CABLES TYPE

- SUBSEA CABLES TYPE
- ROV Tether Cable
- ROV Umbilicals Cable
- Diver umbilical
- Pool robotic cleaner cable
- Neutrally Buoyant Cables
- Diver Communications Cable
- Underwater Video Cable – Diver
- CCTV Inspection Crawler Video Cables
- Underwater Fiber Optic Cable
- Underwater Instrumentation Cable
- Underwater Multiconductor Power & Control Cable
- Underwater Ethernet Cable
- Sidescan Sonar Tow Cable
- Coax Oceanographic Tow Cable
- Push-rod Cables
- Polyurethane or Polyethylene Jacketed Cables
- Composite Underwater Communication Cables
- PUR underwater umbilical hybrid Optical
- Custom Cable Designs





SUBMARINE CABLES

5 Major Aquaculture Market

OPPORTUNITIES AND FORECASTS, 2018-2025

5 Major Aquaculture Market is expected to reach $87.6 billion by 2025.

Growing at a CAGR of 4.9% (2018-2025)

DETAIL DISPLAY

ONE

LONG DISTANCE DATA TRASMISSION

Conductors: Stranded Pure/ tin copper conductors for flexibility and corrosion resistance. Light weight, low dielectric copolymer insulation with great mechanical and moisture resistance.

TWO

RESILIENT, FLEXIBLE AND NEUTRALLY BOUYANT ONE SINGLE LONG CONTINUOUS LENGTH REQUIRED

Custom ROV cables using tried and proven components for power, video, data, etc., which areavailable for your design, providing shorter lead times.

THREE

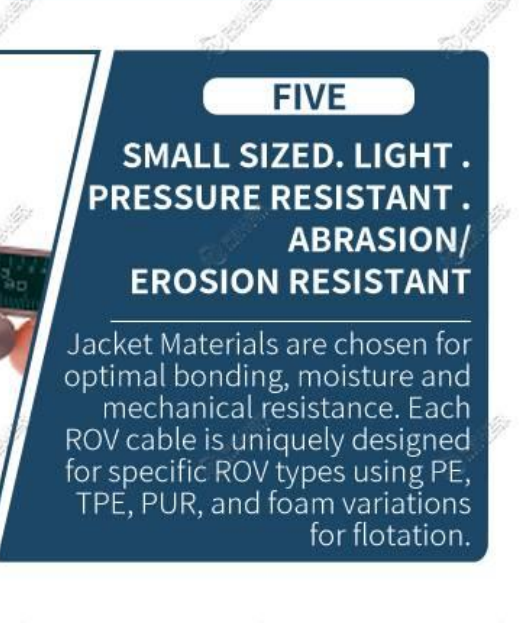
WATER BLOCKED CABLE

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

FOUR

HIGH BREAKING STRENGTH

Strength Layer: Light weight Kevlar fibers are designed into each cable construction to meet specific ROV intended use for maximum strength and longevity.



FIVE

SMALL SIZED. LIGHT . PRESSURE RESISTANT . ABRASION/ EROSION RESISTANT

Jacket Materials are chosen for optimal bonding, moisture and mechanical resistance. Each ROV cable is uniquely designed for specific ROV types using PE, TPE, PUR, and foam variations for flotation.

OIL RESISTANT

FLAME RESISTANT

HALOGEN FREE

COLD RESISTANT

ABRASION RESISTANT

OZONE RESISTANT

UV RESISTANT

MICROBE RESISTANT

MUD RESISTANT

WATER RESISTANT