



SUBMARINE

**SPECIAL CABLES  
FOR MARINE  
TECHNOLOGY**

**TecniKabel**

SPECIAL ELECTRICAL AND OPTICAL CABLES

[WWW.TECNIKABEL.COM](http://WWW.TECNIKABEL.COM)

# INTRODUCTION

Data collection for oceanographic, marine and lake research increasingly needs to conduct assessments of the marine ecosystem and the seabed. Moreover, the strong growth recorded in offshore and marine sectors results in an increase in submarine cable demand, primarily for energy transmission systems, oil extraction and production facilities.

Tecnikabel is able to provide a wide range of different cable types for every application, whether marine, submarine or oceanographic. We seek innovation and, for this reason, appreciate how important it is to develop new technologies that can offer customers the best possible solution.

We are able to combine cable features with our know-how of different fields of application in order to match customer requirements and overcome each and every challenge.

## QUALITY SYSTEM

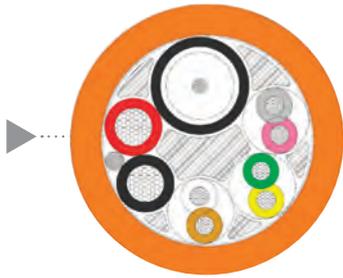
Since 1978, a constant commitment to quality has gained us approval from American and European Authorities. Tecnikabel complies with the most demanding international manufacturing and quality standards.

## PRODUCT LINES

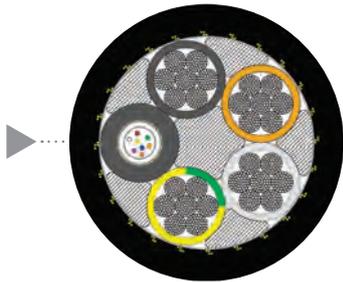
-  **TRANSPORTATION**
-  **OIL / GAS & PETROCHEMICALS**
-  **TELECOMMUNICATION**
-  **OPTICAL**
-  **AUTOMATION**
-  **BUILDING TECHNOLOGY**
-  **SUBMARINE**
-  **AUDIOVIDEO**
-  **NAVAL**
-  **GREEN ENERGY**



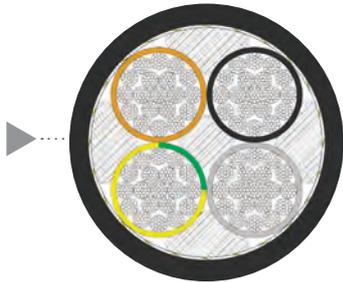
## CABLE DESIGN



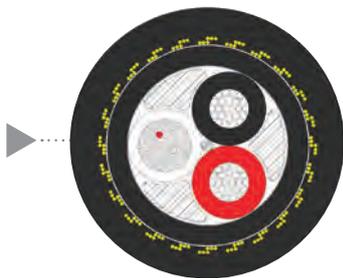
Underwater Hybrid cable (coax plus power and signal conductors), shielded, PUR outer jacket



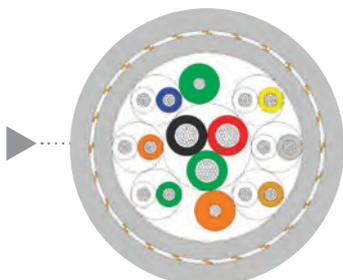
Underwater Hybrid cable (fiber optic and power conductors) aramidic braid under PUR outer jacket



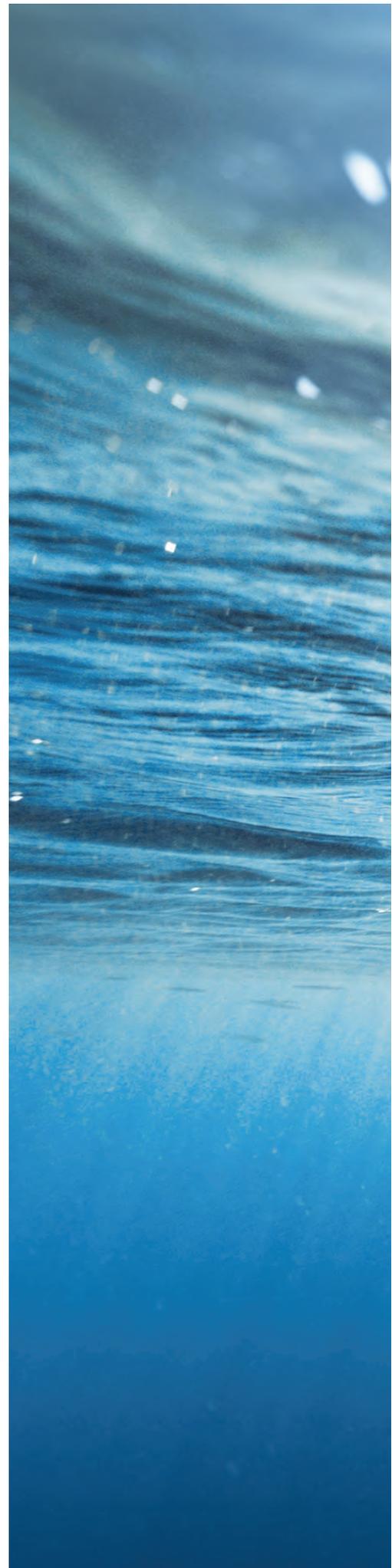
Underwater power cable reinforced with aramidic braid for self-sustaining application, under PUR outer jacket

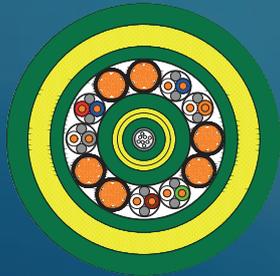


Underwater Hybrid cable (fiber optic and power conductors) aramidic braid between double PUR jacket



Underwater Hybrid cable (fiber optic and signal conductors) aramidic braid between double PUR jacket





## ROV/ TMS/LARS

A wide range of customised main cables providing power and signalling between a surface vessel and ROV or deployment system. The compact electrical and fiber optic assembly diameters can be strengthened either by means of high-strength synthetic yarns or multi-wire armouring layers to deal with substantial loads such as from vessel motion or tidal forces.



Courtesy of MacArtney

## SUBMARINE SURVEY SENSORS AND TRANSMITTERS

Cables for oceanographic mapping surveys, and useful for a wide range of applications. Their main features include:

- wide operating temperature range;
- suitable in either shallow or deep water;
- lightweight;
- small diameter;
- high strength;
- lesser elongation at varying depths.

Magnetometers, gradiometers and detection systems to locate metal objects, track pipelines beneath the seabed, and measure magnetic fields, are just some typical uses.

## MINE HUNTING

Mine Counter Measure cables are often built with optical fibers for data transmission and electrical power conductors in order to supply power from an aircraft to a towed body.

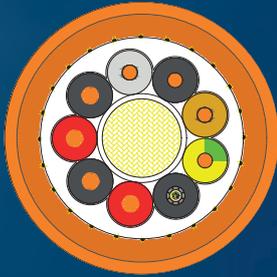
A strong outer jacket protects the assembled product from surface contact.

## SUBMERSIBLE CAMERAS, UMBILICAL DIVING SYSTEMS

A wide range of cables for power, communications, video and combined services, in addition to umbilical component cables that are specially-designed to meet the extreme pressures of a subsea environment.

Flexible, cost-effective solutions to match your needs. Umbilicals are specially-designed to offer solid resistance to dynamic use. Each individual component is cabled in such a way so as to limit tensional and compressional strains and improve cable flexibility during bending.

They not only provide excellent flexibility and abrasion resistance, but also resistance to long-term immersion in seawater.



## WINCHING AND LIFTING

Highly reliable cables with high winding and unwinding dynamics are required in winching and lifting applications.

Our cables offer the opportunity to integrate the best transmission technology and increase suspended loads. They are designed to support the heaviest loads and guarantee specific traction and torsion dynamics studied to cater to customer requirements.

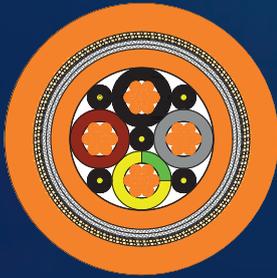


## UNDERWATER SURVEILLANCE AND SECURITY SYSTEMS

Underwater infrastructure, pipelines, data and telecommunication systems and offshore equipment can be damaged and attacked. We supply cables suitable for periodic seabed inspections.

Our cables can integrate the most appropriate structures to carry state-of-the-art technology (HDMI, USB, Ethernet, Optical Fibers) for audio video, data transmission and sensors.



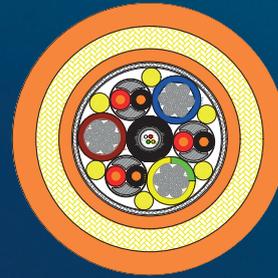


## GEO\_MARITIME RESEARCH

Marine geophysical exploration is an extremely harsh environment. Our cables can be custom designed and built in order to match the requirements of streamer, towing, deck, seabed, boomer and sonar applications. Teknikabel products boast the most compact electrical and fiber optic assembly diameters. Reinforced elements in synthetic fiber or steel wire armored layers give the products the highest degree of strength while keeping the cables flexible and relatively small.



Courtesy of GEO Marine Survey Systems



## FISH FARM

Fish farms are floating structures in marine and lake environments that requires electricity and data transmission.

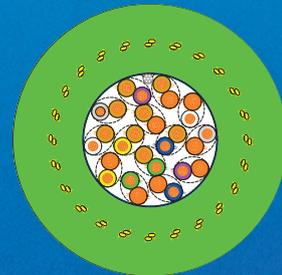
Thanks to Teknikabel's experience in automation and off-shore, we have managed to miniaturize these cables by implementing high dynamics in data transmission such as category 7 Ethernet and Optical Fibers for cutting-edge systems.



## CUSTOM PRODUCTS

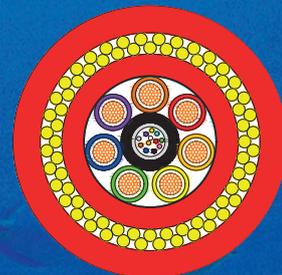
Tecnikabel has a team for state-of-the-art design and development based at its manufacturing facility in Volpiano (TO) Italy. With years of experience and some of the most sophisticated design and testing tools available, Tecnikabel is capable of producing a cable that exactly meets requirements. From large-diameter shielded cables to extremely small optical fibers, with polyurethane or polyethylene jackets, Tecnikabel can meet the challenge. Applications in harsh environments, such as undersea, down-hole and nuclear plant, represent the most common use of these products.

### 🐡 HIGH VISIBILITY CABLES

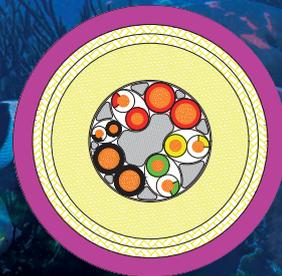


### 🐡 HYBRID CABLES

Copper and optical cable with Stainless Steel Loose Tube



### 🐡 FLOATING OR NEUTRAL CABLES



# TecniKabel

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## PRODUCTION PLANTS

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ALMESE

Via Rivera, 100

10040 Almese (Turin) Italy

## PRODUCTION



TK CHINA

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## DISTRIBUTION



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The TecniKabel logo, featuring the brand name in a stylized font with a red underline.

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