

# Tecnikabel

WHERE FUTURE FLOWS



CABLES FOR  
**Marine**  
**technology**

**SUBSEA**  
SECTOR



# Reliability you can trust.

## 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. Teknikabel 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

With nearly 50 years of experience, **Teknikabel's enduring commitment to quality** has been recognized through the most stringent international manufacturing and quality standards, awarded by both American and European authorities.

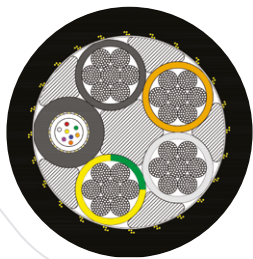


Tecnikabel is focused on constant product innovation to get competitive advantages with endless commitment to research and development.

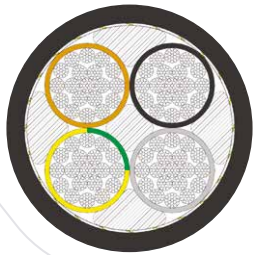


## CABLE DESIGN

# Case Histories



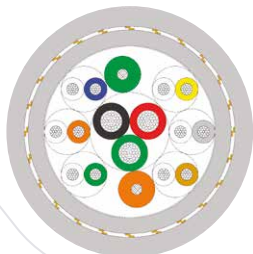
Underwater Hybrid cable (fiber optic and power conductors) aramidic braid under PUR outer jacket



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



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



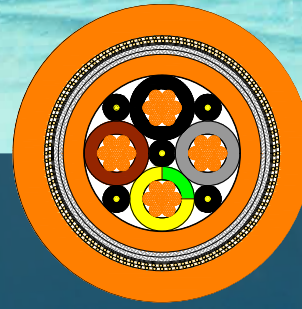
## ROV / TMS / LARS

A wide range of customised 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 support high loads such as from vessel motion or tidal forces.



Courtesy of MacArtney



## GEO\_MARITIME RESEARCH

Marine geophysical exploration is an extremely harsh environment. Our cables are custom designed and built in order to match the requirements of streamer, towing, deck, seabed, boomer and sonar applications. Reinforced elements in synthetic fiber or steel wire armored layers offer the highest mechanical strength while keeping the cables flexible and small.

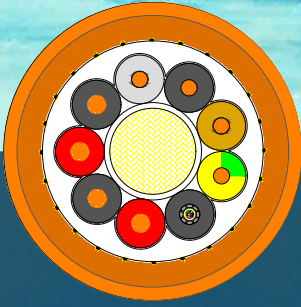


Courtesy of GEO Marine Survey Systems

## 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, Teknikabel 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, Teknikabel can meet the challenge.

Applications in harsh environments, such as undersea, down-hole and nuclear plant, represent the most common use of these products.



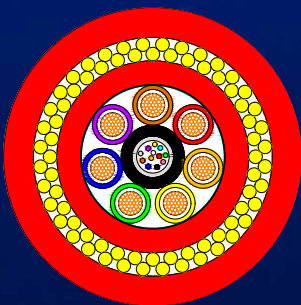
## WINCHING AND LIFTING

Cables with high winding and unwinding dynamics are required in winching and lifting applications performances. Designed to support the heaviest loads and guarantee specific traction and torsion dynamics studied to cater to customer requirements.



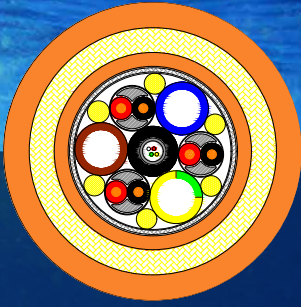
## UNDERWATER SURVEILLANCE AND SECURITY SYSTEMS

Underwater infrastructure, pipelines, data and telecommunication systems and offshore equipment can be damaged and attacked. We supply cables seabed inspections. Our cables integrate the highest transmission technology (HDMI, USB, Ethernet, Optical Fibers) for audio video, data transmission and sensors.



## HYBRID CABLES

Copper and optical cable  
with Stainless Steel Loose Tube



## FISH FARM

Fish farms are floating structures that requires power and data transmission.

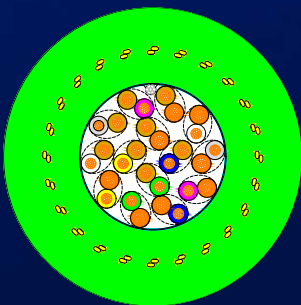
Thanks to TecniKabel's experience in automation and off-shore, we miniaturize cables supporting high dynamics in performances and data transmission such as category 7 Ethernet and Optical Fibers for cutting-edge systems.



## SUBMARINE SURVEY SENSORS AND TRANSMITTERS

Cables for oceanographic surveys, and useful for a wide range of applications. Their main features include: wide operating temperature range; suitable in either deep water or floating surface; lightweight; small diameter; high strength.

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

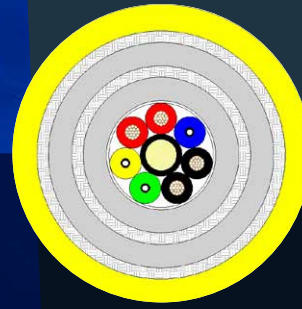
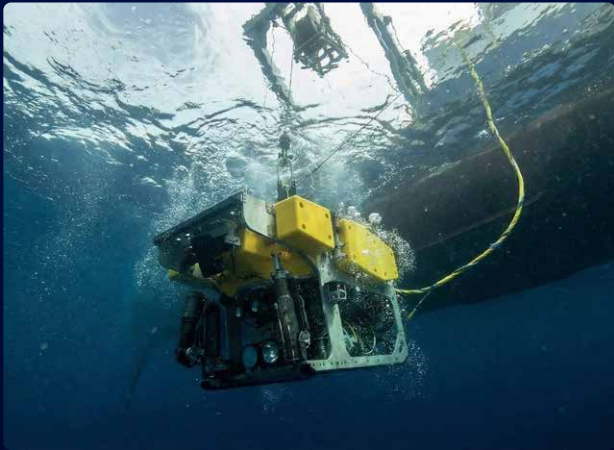


## HIGH VISIBILITY CABLES



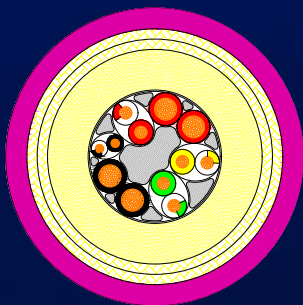
## SUBMERSIBLE CAMERAS, UMBILICAL DIVING SYSTEMS

A wide range of cables for power, communications, video, and combined services, including umbilical components specially designed to withstand the extreme pressures of subsea environments. Each assembly is engineered to limit tensional and compressional strains, maximise flexibility during bending, and deliver outstanding abrasion resistance and long-term durability under continuous seawater immersion.



## 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 equipment to a towed body. A strong outer jacket protects the assembled product from surface contact.



## FLOATING or NEUTRAL CABLES

# Tecnikabel

Passion flows through our cables

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