



 **INTERCOND**
ELECTRIC SPECIAL CABLES

**Marine
and Sub-Marine
Activities**

We are a dynamic forward looking company, and have over thirty five years experience of manufacturing cables to the highest quality and to most International standards.

Our engineering department will work with our customers to design and develop new cables for multifarious applications for their own market sector.

Our R & D is looking for and testing new materials to achieve the standards and specifications required by our customers for today's ever changing markets.

Intercond have wide experience in the manufacture of cables for use underwater and in harsh environments.

Among other fields, Intercond has a wide experience in the manufacture of cables for applications in the marine environment, like cables for seismic operations, used by marine geophysical survey contractors, requiring equipments to suit their individual deployment operation and data acquisition systems.

Cables used in these extreme environments need to be reliable, durable and must guarantee the requested performances.

These products include: streamers, tow-lead cables, deck lead cables, seabed cables.

SUB-MARINE ACTIVITIES



OUR CABLES CAN BE USED FOR THE FOLLOWING APPLICATIONS.

Cables for Seismic Exploration

Umbilicals for Diving Systems

Cables for Submarine Surveys

Submersible Camera Cables

Instrumentation Cables

ROV's and Tether Cables

**Cables for High-lift
Electromechanical Equipments**

Neutral-trim Floating Cables

High Safety Cables

(e.g. IEC 60332-3-24 cat. C - Fire -;
IEC 60754-1/2 and IEC 61034-1/2 - FRNC -)



Cables for Seismic & Sonar Operations

The Marine geophysical survey contractors require equipment to suit their own individual operation and data acquisition systems.

All have the common purpose of mapping the oceans and their underlying sediments for a variety of purposes: to provide navigational

charts, to advance scientific knowledge, to prospect for oil and gas, and to provide engineering survey data in support of the offshore oil and gas, cable laying and on shore civil engineering industries.

Rov/Tether Cables

Underwater technology, especially at great depths, is challenging. ROV's, used for underwater inspection, survey and search work, require cables with high performance and reliability for efficient and accurate control, as well as 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, providing the mechanical link, as well as electrical power and communications.

Underwater Camera and Instrumentation Cables

ROV's may have manipulating arms, on-board tools, as well as lights and cameras.

Underwater cameras offer the ROV industry an unparalleled choice in terms of features and performance, from miniature general purpose observation cameras to high resolution colour

inspection cameras. Cables for ROV's may have different constructions, including both electrical and optical wires, depending on the job they will perform.



SUB-MARINE ACTIVITIES

Cables used in these extreme environments need to be reliable, durable and must guarantee the requested performances.

These Products Include:

- streamers
- tow-lead cables
- deck lead cables
- seabed cables
- boomer cables
- sonar cables



These Products Include:

- neutrally buoyant tethers
- Kevlar® strength member cables
- composite fibre optic and electrical tethers



These Products Include:

- video and communication cables
- power and signal cables
- lighting and control cables



Custom Designed Cables

Our engineering department studies and designs cables to be suitable for the requested applications. In our production facilities, various materials can be used to provide solutions to specific problems.

Together with the customer, we decide the necessary tests to be carried out on cables, depending on the performances they have to meet.

Test Facilities

We have Extensive test facilities that are available to support Intercond's product development.

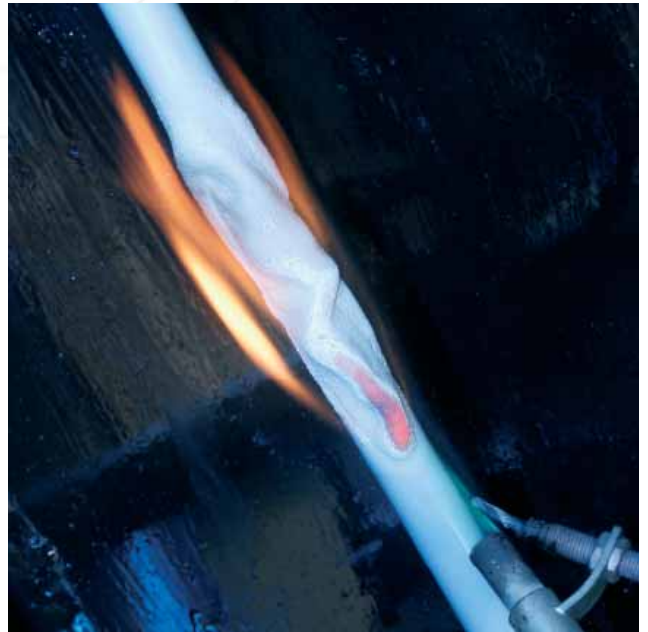
Tests are performed on raw materials, as well as throughout the production process and on the final product.

Amongst Intercond's facilities there are test equipments for dynamic movement, durability, abrasion resistance, and flexibility, as well as machines developed for specific tests.

Any kind of electrical and mechanical test can be carried out satisfactorily:

- **Insulation resistance**
- **Dielectric strength**
- **Impedance, capacitance, inductance, attenuation etc.**
- **Transfer impedance**
- **Any further special test required by the customer**
- **Material toxicity rate**
- **Ageing in climate rooms (life test)**
- **Flame resistance**
- **Fire resistance**
- **Pulling (tensile strength)**
- **Wear and tear**
- **Abrasion**
- **Resistance under torsion**
- **Resistance under alternating torsional stress**
- **Endurance inside a chain cable-holder**
- **Endurance under alternating bending**
- **Crush**
- **Pressure up to 200 Bars**
- **Any further special test required by the customer**

SUB-MARINE ACTIVITIES



A Reality in the Production of Special Cables



In its four production plants Intercond produce cables for the most specialization fields: from data transmission to robotics, from telecommunications to industrial electronics, from video-sound transmission to “off-shore”.

All Intercond products, either the standard ones illustrated in the catalogues or the most refined cables made to a particular specification, are manufactured as result of continuous research with the most modern equipments and selected raw materials.

Intercond design and produce cables which are reliable and to specific requirements of the customer.

Intercond can manufacture cables responding to the most important International Standards (such as UL, CSA, VDE, DNV) and has its own Quality Service, implemented by a Quality Assurance certified ISO 9001: 2000.

Our application fields:

- **Telecommunications**
- **Machine tools and robots**
- **Audio-Video**
- **Test and control equipment**
- **Medical systems**
- **Automotive**
- **Off-shore**

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