



Marine & Offshore solutions



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Small & flexible – focus on the customer

AMO Cable group



In this catalogue we present you our product portfolio of marine and offshore cables.

The AMO cable group is a privately-owned cable manufacturing group, founded in 1992 in Alstermo, Sweden. Our strategy of continuous expansion and modernization has made us into a very profitable and successful player, servicing customers all over the world.

The group consists of three manufacturing cable companies, producing all types of cable solutions for electrical installations in many different industries:

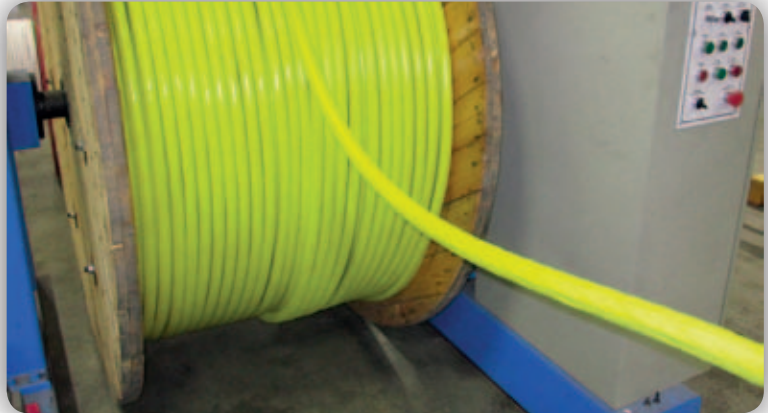
- **Shipbuilding and offshore**
- **Residential house building**
- **OEM**
- **Automotive**
- **Industry**
- **Energy**
- **Customer-made**

Our main customers are wholesalers, distributors, industry, ship yards and power utilities.

We find it very important to have a close relation to all our customers and we see it as our duty to understand and find adequate solutions for their needs.

We offer short and guaranteed delivery delays and deliver cables with high and constant quality, made from the best materials, using the newest production techniques.

General characteristics



Our marine and offshore cables are specially designed for the demanding environments on boards of ships and off shore platforms. They have been type approved by a classification society and they have a construction that respects the standards for this type of cables.

In order to have a most flexible cable and easy installation, as a standard we use conductors of Class5, annealed bare or tinned copper. On demand, we can also offer Class2 conductors.

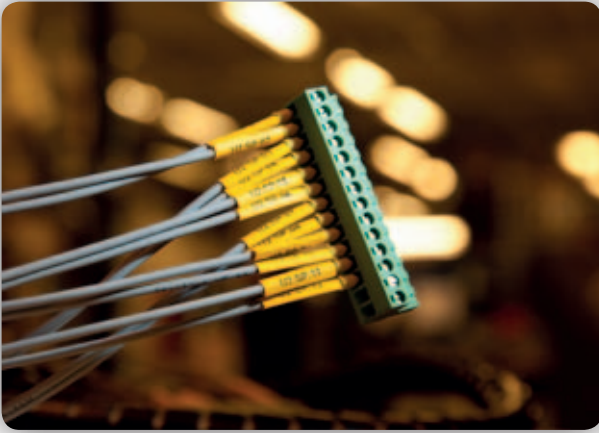
All cables are insulated with high-end cross-linked polyethylene (XLPE). As stipulated by the IEC 60092-353 standard, this material permits a continuous conductor temperature of 90°C. In practice our insulation material can withstand a temperature of 125°C, and a short-circuit temperature of 250°C. Besides, the XLPE is not only easy to strip, but also has very good electrical properties resulting in low dielectric losses for the power cables and good transmission for the instrumentation cables.

The outer sheath is composed of a halogen free, low smoke and flame retardant thermo-plastic compound, that performs extremely well in terms of heat, cold, oil, salt, ...

In case of fire our cables will have a reduced emission of smoke and corrosive toxic gases.

When fire-resistant cables in accordance with IEC60331 are requested, then the conductors will be insulated with a very special silicon rubber compound, which at the same time withstands the heat of fire and keeps the insulation intact. In the event of a fire, the insulation transforms from a flexible, plastic to a tough ceramic layer to assure circuit-integrity.

By using Kevlar rip-cords underneath the outer sheath, our cables can always be stripped fast and easy, without damaging the core insulation.



**With regard to the related international standards,
the AMO ship cables respect the following standards:**

General properties:

IEC 60092-350 : Shipboard power cables – General construction and test requirements

IEC 60092-351 : Insulating materials for shipboard and offshore units

IEC 60092-353 : Single and multicore non radial field power cables with extruded solid insulation for rated voltages 1kV and 3kV

IEC 60092-359 : Sheathing materials for shipboard power and telecommunication cables

IEC 60092-376 : Cables for control and instrumentation circuits 150/250V

Fire properties:

IEC 60331-21 : Circuit Integrity test for electrical cables under fire conditions

IEC 60332-1 : Testing of a single, vertical insulated wire or cable under fire conditions

IEC 60332-3 : Testing bunched wires or cables under fire conditions

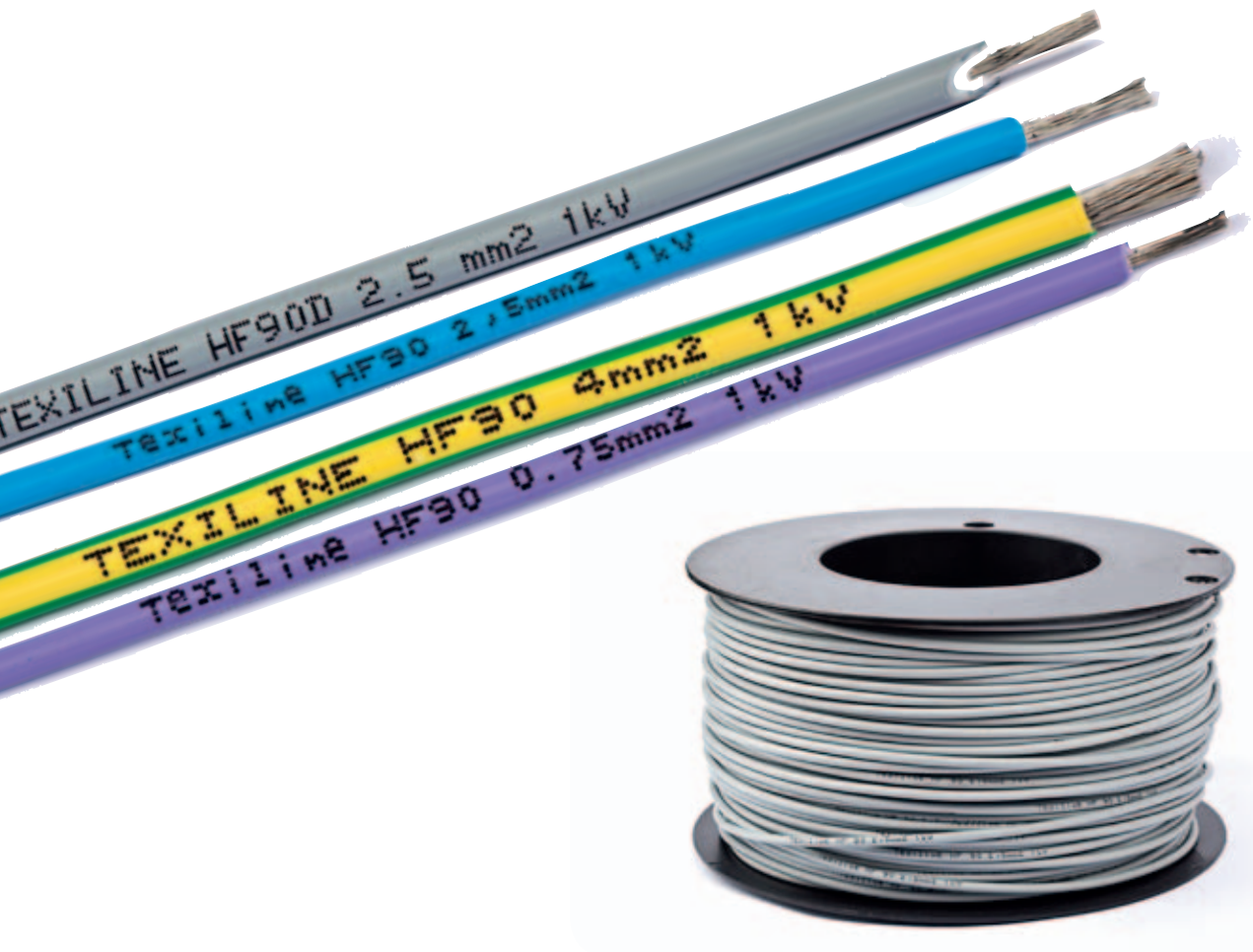
IEC 60754-1 : Test on gases evolved during combustion of insulated wires and cables – Determination of the amount of halogen acid gas

IEC 60754-2 : Test on gases evolved during the combustion of insulated wires and cables – Determination of degree of acidity of gases by measuring pH and conductivity

IEC 61034-2 : Measurement of smoke density of cables burning under defined conditions

All our cables have been fully approved by Det Norske Veritas.

Our product range



TEXILINE switchboard wire

TEXILINE is a high-end flexible panel wire used in ship and offshore installations for the electrical cabling of cabinets or switchboards, with a rated temperature of 125°C.

TEXILINE is available in 2 versions:

- HF90 with one single XLPE HF insulation layer
- HF90D “short circuit proof” with one double XLPE HF insulation layer

Its special smooth surface makes installations in cable trunkings much more easy. The wires will not stick to each other. The insulation on the conductor is also extruded in such a way that the stripping of the wire is made very easy.

The product range consists of 10 different colours.

For special demands can TEXILINE be produced with thin wall insulation 300/500 V. TEXILINE also has an UL approval.



Photo Kockums

0,6 - 1 kV power cables

The cables can be used for power and lighting installations.

Our power cables ensure a high quality installation:

- the cable can be stripped easily thanks to the soft XLPE insulation and the fact that the different layers will not stick to each other
- the cable can be easily installed in tight spaces, using lower pulling force, thanks to the flexible class 5 conductors, smooth outer sheath and round shape of the cable

The cables can be delivered with or without a copper braided screening.

0,6-1kV and 1,8-3kV Variable Frequency Drive (VFD) power cables

The cables can be used to connect the variable frequency drive systems with thrusters, propulsion systems, winches, lifts and drives on ships.

Typical for this cable is the copper braided and foiled screening in order to have a 100% EMC protection for a good performance.



Instrumentation, communication and control cables

These HFFR cables are designed to transport data for sensors, control panels and measurement in an optimal way.

Typical for this cable are the twisted pairs, with flexible conductors, individually or/and collectively screened. This cable can also be extra protected with a copper braided screening.

Fire resistant cables

All our cables can be made fire resistant, according to IEC 60331-21. These cables are still very flexible and easy to handle. The XLPE in-

sulation is replaced by a special silicone rubber insulation that changes into a ceramic layer to keep data and power flowing for at least 90 minutes during a fire.

OFFSHORE cable

AMOkabel produces power and control cables to be used for electrical installation on board of offshore platforms.

These cables are halogen free, low smoke and flame retardant. The outer sheath can be extruded in a MUD resistant compound according to NEK606.

Thanks to the use of class5 conductors, the cable are still enough flexible for an easy handling, even when bigger sections.

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