

OIL & GAS

INDUSTRY CABLES



HELLENIC CABLES S.A.
HELLENIC CABLE INDUSTRY S.A.

FULGOR S.A.
HELLENIC CABLE INDUSTRY

ICME ECAB S.A.
CABLE INDUSTRY




HELLENIC CABLES
G R O U P



With a wide portfolio of reliable and competitive cable solutions for international customers, the Cablel Hellenic Cables Group is one of the largest cable producers in Europe. The Group manufactures power, telecommunication and submarine cables, as well as enamelled wires and compounds.

The Cablel Hellenic Cables Group represents the cable production and marketing sector of Viohalco SA. The Company started its activities in 1950 as a Viohalco plant and in 1973 was incorporated as an independent subsidiary under the name Hellenic Cables, expanding its production and trade operations. Today, the Cablel Hellenic Cables Group consists of Hellenic Cables S.A. which operates three plants in Viotia, Greece that produce cables, enamelled wires and plastic and elastomer compounds; the Fulgor S.A. plant in Corinth, Greece, which manufactures power cables, power and fibre optic submarine cables and copper wires; Icme Ecab S.A., a power and telecommunication cable manufacturer in Bucharest, Romania and Lesco Ltd Blagoevgrad, Bulgaria which manufactures wooden reels and pallets.

With a strong export orientation and focus on development of value added products, such as high and extra-high voltage cables and submarine cables, the Group implements significant investments towards enriching its product portfolio and enhancing its sustainability profile. The Company implemented a EUR 60 million approximately investment plan for the manufacture of high-voltage submarine cables in Fulgor's plant.

The Company's wide product range, which is sold internationally under the Cablel® trademark, extends to PVC, EPR and XLPE insulated power cables (rated up to 500kV), marine and low smoke halogen free cables, fire resistant cables, telecommunication, signal and data cables with copper conductors or optical fibres, as well as fire retardant halogen free plastic and elastomer compounds and enamelled wires. Wires and cables are supplied to a variety of international standards, such as VDE, CEI, ICEA, NF, SEN, BS, UL, NEMA, JIS, ASTM, DIN and ELOT. Many of the Company's products are certified by BASEC, VDE, IMQ, NF-USE, NETWORK RAIL, KEMA, DNV and UL.

All Cablel® enamelled wires are manufactured and tested to the IEC 60317-0-1 standard; customers may also request any other recognised international standard.

Technical know-how is combined with continual investment in state-of-the-art machinery, to ensure levels of efficiency and quality which meet the strictest standards. The Company's Quality Management System is certified to ISO 9001:2008, its Environmental Management System to ISO 14001:2004 and its Occupational Health and Safety to OHSAS 18001:2007. Cablel Hellenic Cables Group has the necessary expertise to develop and offer turnkey solutions that meet specific demands of its customers.

Commitment to quality and sustainable development has been a key factor in enabling Cablel Hellenic Cables Group to establish a strong market position internationally.

The Company's highly experienced technical and managerial staff have a strong commitment to innovation, technological excellence and outstanding quality, which ensures that users of Cablel® products have made a reliable choice.

The Cablel Hellenic Cables Group aims to constantly improve its offering and respond swiftly to changes in customer requirements around the world with reliable and safe products, based on environmentally-friendly technologies. At the same time, the Group places strong emphasis on the development of its people and the creation of value for its shareholders, partners and the communities in which it operates. Looking ahead, the Group plans additional investments in technology and innovative cable solutions, as a way of contributing to the creation of a sustainable future for its stakeholders.



CABLEL[®]

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The Hellenic Cables Group offers a wide range of cables for the oil and gas industry, which comply with national and international standards (BS, IEC, NEK, etc).

- Telecommunication (Copper up to 7+ category and fibre optic), instrumentation and control, low, medium and high voltage cables customised for the oil and gas industry requirements.
- Medium and high voltage submarine cables, fibre optic submarine cables and composite submarine cables containing power cores, optical fibre and control elements.

Our advanced technology and know-how combined with our flexibility, ensure that our products are designed, manufactured to the highest quality standards and marketed with the perspective to fully support customers' special requirements.

Submarine & Power Cables



Power Cables



Telecommunication & Data Cables



Rubber & Plastic Compounds



Enamelled Wires




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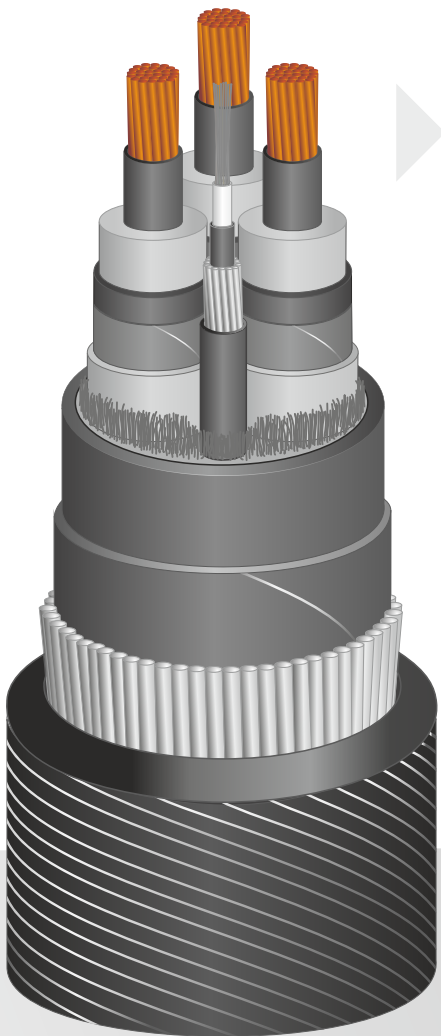


SUBMARINE CABLES FOR CONNECTING ONSHORE TO OFFSHORE FACILITIES AND INTERCONNECTING OFFSHORE FACILITIES

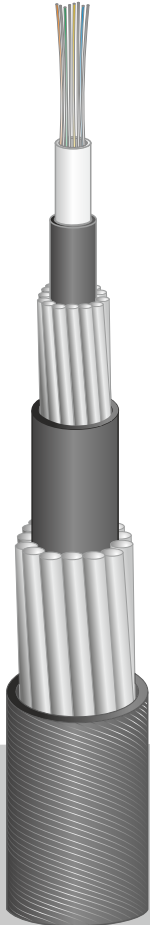
Optical fibre submarine cables

Currently in our production range are Light Weight Armoured (LWA), Single Armoured (SA) and Double Armoured (DA) submarine cables. The optical core is a hermetically sealed stainless steel tube which contains the optical fibres. Very long continuous lengths are achieved with the use of factory splices. For maintenance purposes, the cables are qualified to the Universal Quick Joint (UQJ). Accessories are available for connecting the onshore /offshore optical fibre cables to the optical fibre submarine cables.

Medium/High Voltage AC and Composite power/optical fibre submarine cables



Currently in our production range are Medium Voltage AC submarine cables with rated maximum operating phase-to-phase voltage up to 42 kV and HV AC submarine cables with rated maximum operating phase-to-phase voltage up to 170 kV. The MV AC submarine cables are three-core armoured cables with copper or aluminium conductors with cross-linked polyethylene (XLPE) insulation, copper wire screen with or without laminated core sheath or lead sheath as a radial metallic water barrier. The High Voltage AC submarine cables are three-core armoured cables with copper or aluminium conductors, XLPE insulation and lead sheath over each insulated core as a radial metallic water barrier. Moreover, in our production range are composite MV AC and HV AC submarine cables, of same design as described above, which include in their structure one or more optical fibre units or control elements. All above mentioned cables are manufactured in very long continuous lengths, without the need of factory joints or with the absolute minimum number of factory joints, as apply today in the subsea cable industry. The factory joints are flexible splices performed on each core under the continuous protective layers of the cable and consist an integral part of the cable. Accessories are available for terminating and connecting the onshore/offshore cables to the submarine cables (hang-off assemblies, protection systems, onshore-submarine cable transition joints, terminations, repair joints).

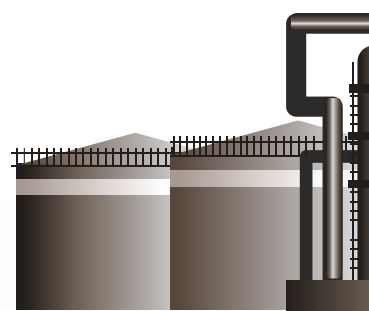


In addition to the supply of cables and accessories the installation and protection of submarine and onshore /offshore cables is provided on a turnkey basis.

CABLEL PETROCHEM CABLES

Cable Type	Description
CABLEL - Petrochem Cables - LV	
Note: sheaths can be MDPE, HDPE or LSF materials	
CABLEL - Petrochem L-LA	Lead sheathed armoured XLPE/PVC/Pb/PVC/SWA/PVC 0.6/1 kV Fire resistant or not
CABLEL - Petrochem LMR FR A	EPR/LSZH/GSWB/LSZH 0.6/1 kV according to BS 6883
CABLEL - Petrochem LMR S	MGCG 0.6/1 kV Single and Multi-core
CABLEL - Petrochem LMN FR	NSSHOU 0.6/1 kV Single and Multi-core cables
CABLEL - Petrochem LHR	H07BN4-F 450/750 V Single or Multi-core cables
CABLEL - Petrochem Cables - MV	
Note: sheaths can be MDPE, HDPE or LSF materials	
CABLEL - Petrochem M-LA	Lead sheathed armoured XLPE/CWS*/PVC/Pb/PVC/SWA/PVC 6 to 30 kV (3 core) (*) or CTS
CABLEL - Petrochem Cables - HV	
Note: sheaths can be PVC or LSF materials	
CABLEL - Petrochem H	Lead sheathed armoured XLPE/CWS*/HDPE 45 to 150 kV (*) Radial water blocking of screen by aluminium foil laminate bonded to outer sheath
CABLEL - Petrochem M-WA	Smooth (or corrugated) welded for aluminium sheathed XLPE/AL/HDPE 45 to 150 kV
CABLEL - Petrochem M-L	Lead sheathed XLPE/Pb/PVC 45 to 150 kV

Cable Type
INSTRUMENTATION
CABLEL - Petrochem IT OACR
CABLEL - Petrochem IT OIACR
NEK 606 LV & MV CABLES
CABLEL - Petrochem LUR
ESP CABLES
CABLEL - Petrochem ESP CEI
TELECOMMUNICATION
CABLEL - Petrochem TC SA
CABLEL - Petrochem TC D
CABLEL - Petrochem TC FO



Description

Note: sheaths can be PVC or LSF materials

PE/CS/PE/AL/PA/SWA/PVC or PVC/CS/PVC/AL/PA/SWA/PVC
multicore/pair/triad 300/500 V

PE/IS/CS/PE/AL/PA/SWA/PVC or PVC/IS/CS/PVC/AL/PA/SWA/PVC
multicore/pair/triad 300/500 V

Note: sheaths can be PVC or LSF materials

RFOU, RFCU and RU cables

Note: sheaths can be PVC or LSF materials

ESP cables up to 5 kV

Note: sheaths can be HDPE, PVC or LSF materials

PE/AL/PE/SWA/PVC multipair/quad jelly filled or not

Copper twisted pair cables, category 5E, 6, 7

From 2 to 144 single mode or multimode, loose tube or tight buffered, jelly filled or dry core, dielectric or steel tape armoured optical fiber cables.

The Hellenic Cables Group offers a wide range of cables customised for the requirements of the oil and gas industry, which comply with national and international standards (BS, IEC, NEK, etc).

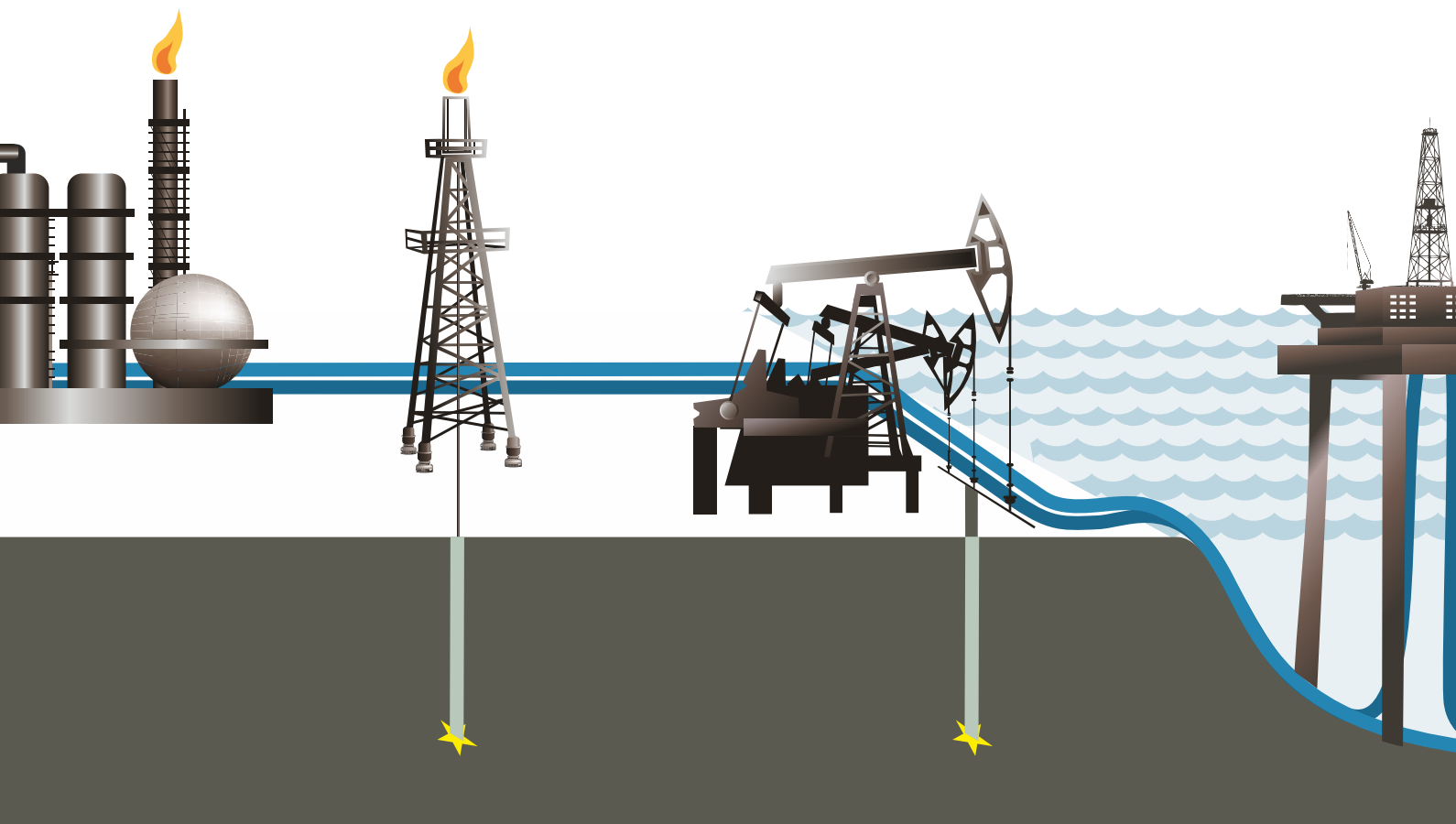
- Telecommunication copper cables up to 7+ category
- Fibre optic cables
- Instrumentation and control cables
- Low voltage cables
- Medium voltage cables
- High and extra high voltage cables

Our products meet the following requirements :

- Flame retardance
- Fire resistance
- Installation and operation at low temperatures
- Hydrocarbon and mud resistance
- Additional mechanical protection

Protection in aggressive environments, where the highest impermeability to hydrocarbons is required, can be achieved by

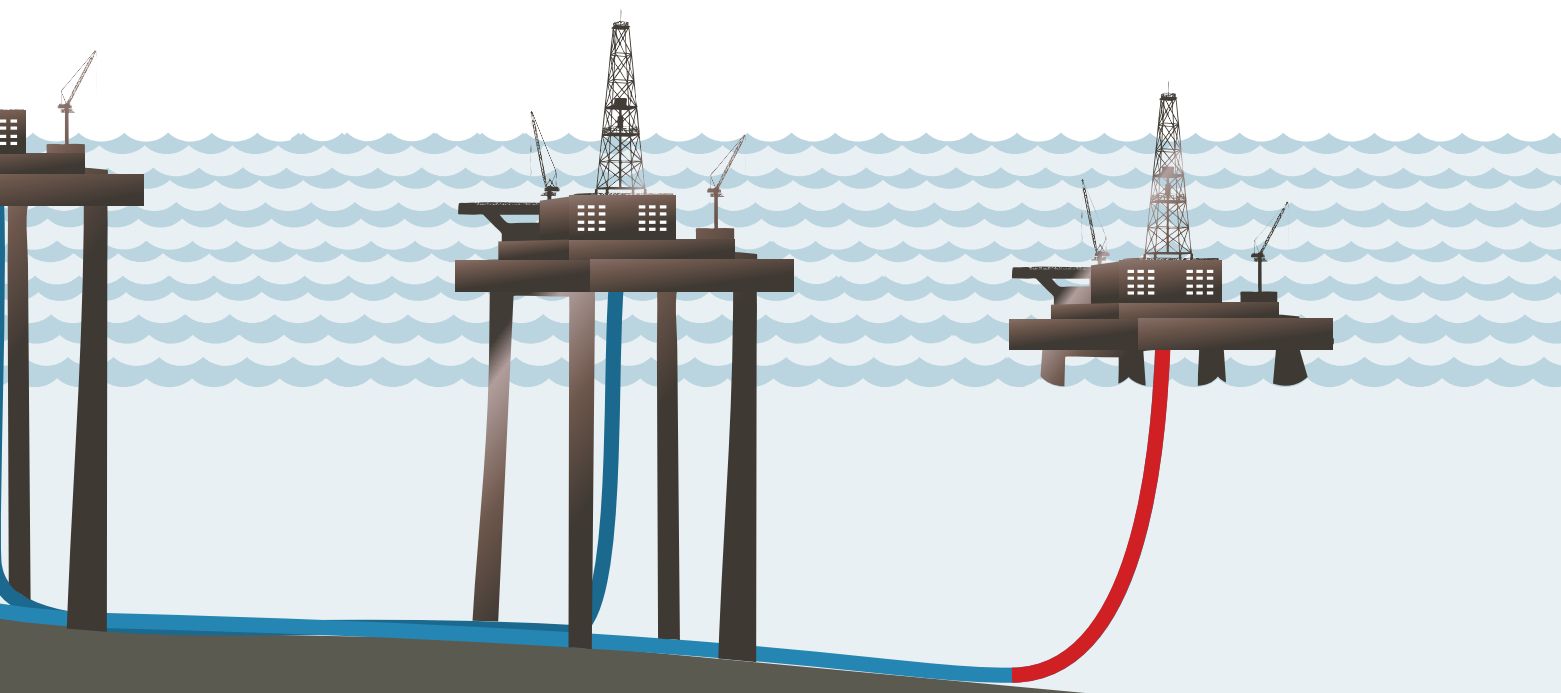
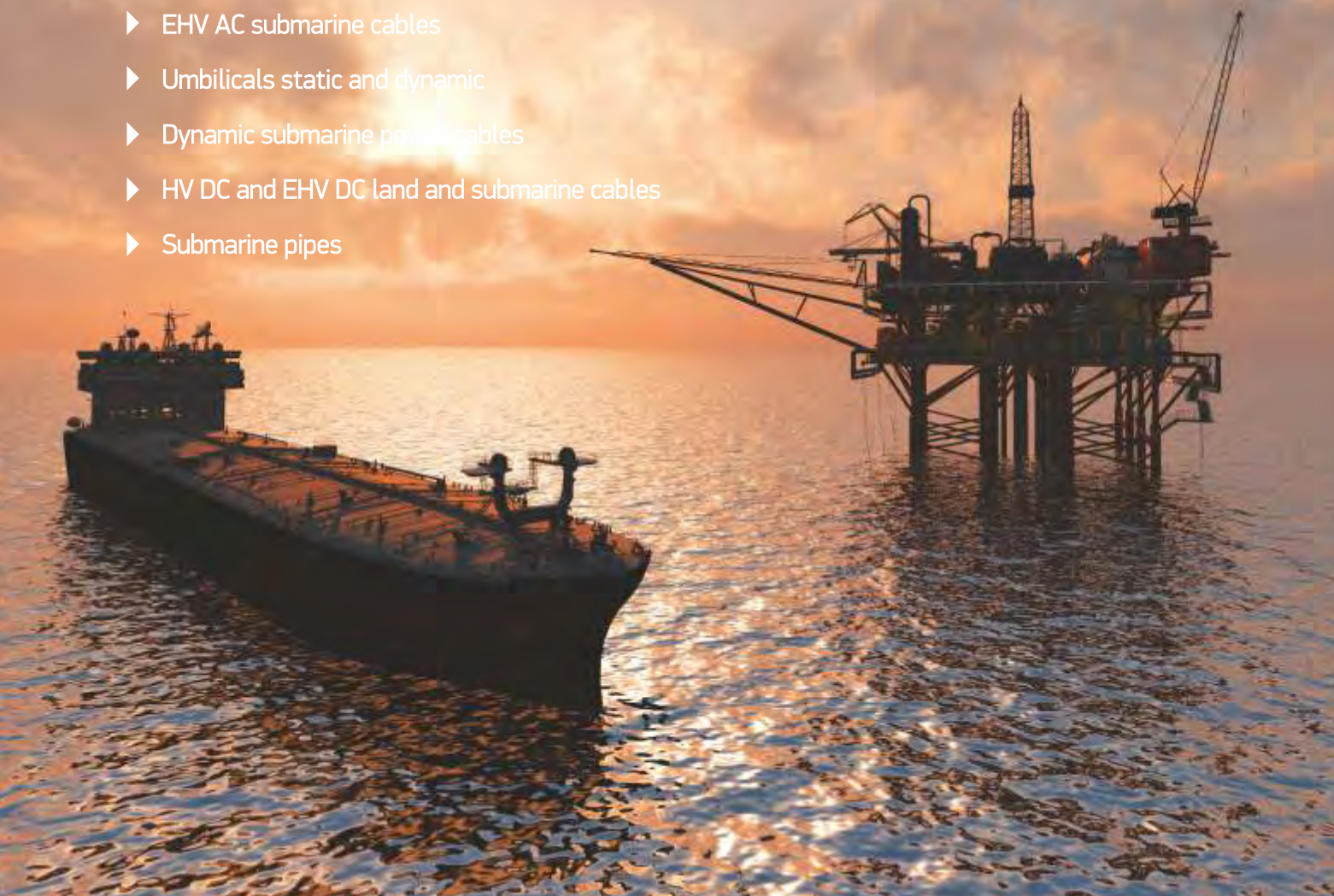
- Extruded lead sheaths
- Corrugated or smooth longitudinally welded aluminium sheaths



FUTURE OUTLOOK ▶▶▶▶▶▶▶▶

The Group product development strategy in our existing facilities includes:

- ▶ EHV AC submarine cables
- ▶ Umbilicals static and dynamic
- ▶ Dynamic submarine power cables
- ▶ HV DC and EHV DC land and submarine cables
- ▶ Submarine pipes





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