Prysmian is the acknowledged world leader both in terms of market share and technical know-how in the submarine systems field, which is now facing a number of new challenges due to economic, environmental and technical trends. The orientation towards the development of renewable energy sources and the transition to sustainable models, the continuous increase of the use of electric energy, and the need for higher transmissioncapacity systems and in an economically efficient manner, is also driving the need for innovative solutions with the required reliability and availability.

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Among the renewable energy sources presently being exploited and developed, wind energy seems to be the most promising one. In the last years it has grown up at a pace that could not have been forecasted just a few years ago. As well, there is a growing interest of utilities consortia in renewable energy, which is now facing a number of new market share and technical know-how - in the submarine system field, which is now facing a number of new market share and technical know-how. The need of making clean energy more widely available as well as for its installation. They also require tighter delivery times for submarine systems and acceptable returns for the investors they are financed by.

The development of submarine cables has intrinsic limitations: the former in terms of total energy, the latter in terms of total energy. A new approach has been needed to deploy submarine cables at increasing distances.

The Paper Polypropylene Laminate (PPL) has been adopted, having also a determining impact on the entire system, even higher thermal performances and paved the way for system optimisation of the existing generation friendly systems not only as far as the cable is concerned but also as for its installation. A new insulation system consisting of the extruded technology proves suitable also for HVDC technology improvement this type of cable is presently adopted and reduce losses. Now, research and development work has been conducted on the extruded technology for submarine applications, thanks to the cable's high weight and dimensions as well as longer lengths, key advantages of the extruded technology for submarine applications. Thanks to the cable’s high weight and dimensions as well as longer lengths, key advantages of the extruded technology for submarine applications.

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**Submarine Energy Systems**

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- **Cable System**
  - The Paper Polypropylene Laminate (PPL) has been adopted for voltages above 275 kV, in order to improve electrical performances and thermal performances and paved the way for system implementation of submarine interconnections. Nevertheless, both technologies are brought together. The use of PPL in combination with a viscous compound has made the cable system a Permanent deformation or damage of the most sensitive underlying layers, such as screen and insulation.
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- **Protection System**
  - The use of polyethylene (PE) as an extruded insulation and extruded polyethylene (XSPE) or XLPE dielectric offers several remarkable advantages and has been acknowledged and adopted worldwide for submarine applications, thanks to the availability of innovative solutions together with a determining factor for the implementation of a project and investors they are financed by. They also require tighter delivery times for submarine systems and acceptable returns for the economical possibilities.
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- **System Solutions and Innovation**
  - Prysmian has patented a completely polymeric innovative protection system, the Air Bag Cable System, which is completely polymeric, made in one piece using an innovative extrusion technique, which makes the cable system a Permanent deformation or damage of the most sensitive underlying layers, such as screen and insulation.
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**YOUR ENERGY... OUR SYSTEMS... ANYWHERE**

- **Extruded Insulation Cables for HVDC Links**
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- **Offshore Wind-Farms**
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Prysmian is a multinational company with a long-standing tradition of participation and leadership in the field of High Voltage. The Prysmian brand has always been a guarantee for the supply of products and services based on worldwide common quality standards. Prysmian has a built-in multi-step quality control system and is in adherence with all national and international regulations and guidelines under cable activities in the field of High Voltage. Prysmian is fully aware of the need to provide a high level of safety, reliability and efficiency to its customers. Prysmian’s ability to supply and install complete cable systems would not be possible if it were not for the expertise and engineering capabilities that are developed and supported by the experienced and professional Prysmian team.

**About us**

Prysmian Submarine Energy Systems is a world-class multinational company with a long-standing tradition of participation and leadership in the field of High Voltage. Prysmian is the leading provider of submarine energy systems worldwide, with a focus on innovative solutions and services. The Prysmian brand has always been a guarantee for the supply of products and services based on worldwide common quality standards. Prysmian has a built-in multi-step quality control system and is in adherence with all national and international regulations and guidelines under cable activities in the field of High Voltage. Prysmian’s ability to supply and install complete cable systems would not be possible if it were not for the expertise and engineering capabilities that are developed and supported by the experienced and professional Prysmian team.

**Global Solutions Provider**

Prysmian’s focus is on a total system design and engineering, project management, installation and post-sale services. Prysmian is a multinational company. Founded in 1872 as “Ditta Telefoni di Cavo”, the company became Prysmian in 1965. Prysmian has an extensive presence in five continents and a market share in excess of 10%.

**Product Range**

Prysmian offers a comprehensive range of products and solutions, from the design and engineering of submarine cable systems to installation and post-sale services. The company is committed to continuous innovation and improvement to meet the needs of its customers and the energy market.

**Project Management and Services**

Prysmian offers a comprehensive range of services for the management and delivery of complex, large-scale submarine cable projects. The company has high standards for project management, from the pre-project phase to the post-project phase. Prysmian has a dedicated team of experienced professionals who work closely with the customer throughout the project lifecycle, from conception to completion.

**References**

Prysmian has a wealth of experience in the design, installation, and operation of submarine cable systems. The company has delivered projects in various sectors, such as oil and gas, renewables, and power transmission. A few examples of Prysmian’s key achievements include:

- **A major achievement in terms of severe installation conditions (seabed and currents)**: Prysmian’s ability to supply and install complete cable systems would not be possible if it were not for the expertise and engineering capabilities that are developed and supported by the experienced and professional Prysmian team.
- **The longest HVAC submarine energy system**: Prysmian has delivered submarine cable systems for transmission and distribution networks. The company has the capability to deliver submarine cable systems for various applications, including HVAC, HVDC, and EHV.
- **A milestone in terms of linking the coast to the world’s largest offshore windmill park, the Energy E2 Nysted at Rødsand**: Prysmian’s ability to supply and install complete cable systems would not be possible if it were not for the expertise and engineering capabilities that are developed and supported by the experienced and professional Prysmian team.
- **One of the biggest three-core extruded AC submarine power cables existing on the market**: Prysmian has delivered submarine cable systems for various applications, including HVAC, HVDC, and EHV. The company has the capability to deliver submarine cable systems for various applications, including HVAC, HVDC, and EHV.

Prysmian is committed to innovation and continuous improvement to meet the needs of its customers and the energy market.
About us

Prysmian Cables & Systems is a world-class multinational company. Founded in 1872 as “Ditta Elettrica”, Prysmian has evolved over the years from the traditional role of cable manufacturers to that of a global system provider.

Prysmian Cables & Systems is an integrated company that involves all the traditional phases of the cable industry, from cable design to raw material purchasing and from cable manufacture to installation and post-sale services.

Prysmian’s cable production covers all medium voltage (MV) and high voltage (HV) applications.

Prysmian’s strong presence in international markets - “Energy Cables & Systems” - is testimony to the capability of Prysmian to develop and market its products and solutions throughout the world.

Prysmian Cables & Systems is an integrated company, able to provide total solutions, from the design to installation, for power systems, submarine power and telecommunications applications.

The Prysmian brand has always been a guarantee for the quality, reliability and stability of the products produced.

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Engineering

Submarine cable systems have to be designed and built to meet the requirements of the project and environment. Prysmian offers a complete range of services from laying through trials to on-site operations, including all types of accessories (mainly MV cables for offshore oil industry).

For each single project, the machines are chosen on the basis of the project configuration. Thanks to its Dynamic Positioning System – SIMRAD – the ship is capable of operating with a pulling tension of 55 tons. The ship is modern and versatile cableship capable of laying all types of submarine cables even under severe weather and environmental conditions.

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About us

Prysmian, a world leading company in the design and manufacturing of submarine cables, conducts its activities in five continents and has a market share in excess of 10%.

In about a century of operations in its two key markets, Prysmian has evolved from a manufacturer to that of a Solutions Provider.

To support innovation, Prysmian has recruited over the years the best scientific talents, and is now conducting research and development programs that address the challenges of distribution and transmission solutions.

Prysmian is a multinational company. Founded in 1872 as “Ditta Elettricità – Braidelli & Ambrosi”, it was renamed “Prysmian” in 1928. In 1973 the company incorporated four other companies.

Global Solutions Provider

The Prysmian Group has been serving its customers in diverse ways, as a result of strategic acquisitions and partnerships, to deliver the best technical solutions, competitive engineering, design and project management, and continuous product innovation and on achieving integrated solutions, such as cable systems, electrical networks and engineering projects management.

The Prysmian Group is a global company. It has more than 130 years of experience in submarine and power cables, having supplied cables to more than 120 countries and produced over 35,000 miles of submarine cables in 21 countries.

Product Range

For all types of submarine cable systems, Prysmian offers a complete end-to-end system, including all types of accessories.

New Impregnated Cables

High Voltage Paper Insulated Cables

Self-Contained Fluid Filled Cables

Extruded Insulation Cables

A milestone in terms of challenging installation conditions

A milestone in terms of extremely low environmental impact

A milestone in terms of length, 4 single lengths of 42 Km each, without any jointing

A milestone in terms of size and weight

A milestone in terms of depth (615 m), at that time, record in this kind of cables

A milestone in terms of extremely high accuracy. Prysmian has also the necessary in-house configuration. Thanks to its Dynamic Positioning System — SIMRAD, Prysmian can offer a comprehensive capability able to solve, develop and even anticipate the most difficult problems.

Project Management and Services

Prysmian is a Solutions Provider and offers a complete end-to-end system, including all types of accessories.

For any type of submarine cable systems, Prysmian offers the following services:

Engineering

Survey

Installation

Post-sale and Maintenance

References

Track Record
About us

Prysmian Cables & Systems is a world-class multinational company founded in 1872 as "Ditta Eletronaica" in Italy. It is today one of the leading companies in the energy cable market, with worldwide sales of over €9 billion.

Prysmian Cables & Systems operates in a variety of sectors, including power generation and distribution, submarine cables, high voltage direct current (HVDC) cables, and offshore wind farms. The company is committed to providing customers with high-quality products and services, as well as innovative solutions to meet their specific needs.

Prysmian Cables & Systems is a member of the Prysmian Group, which is one of the world's leading cable manufacturers. The Group employs over 15,000 people in 30 countries around the world.

Prysmian Cables & Systems is dedicated to sustainability and environmental responsibility. The company is committed to reducing its carbon footprint and promoting sustainable practices throughout its operations.

Product Range

Prysmian Cables & Systems offers a comprehensive range of products and services, including:

- Extruded Insulation Cables
- Fluid-filled Cables
- Self-contained Fluid-filled Cables
- Pressurised Cables
- Self-contained Pressurised Cables
- Oil-filled Cables
- Busbar Systems
- Accessories

These products are designed to meet the needs of a wide range of industries, including power generation, transmission, distribution, and automation.

Project Management and Services

Prysmian Cables & Systems is committed to providing its customers with a comprehensive and integrated approach to project management. This includes:

- Project Management
- Technical Assistance
- Installation
- Post-sale and Maintenance Services

Prysmian Cables & Systems offers a wide range of services, from initial project planning and design to ongoing maintenance and support. This allows the company to deliver a complete solution to meet the needs of its customers.

Total Quality Commitment

Prysmian Cables & Systems is committed to delivering high-quality products and services that meet or exceed customer expectations. The company is focused on continuous improvement and is committed to ensuring customer satisfaction.

Standards and Recommendations

Prysmian Cables & Systems is dedicated to quality and compliance with industry standards and recommendations. The company is committed to providing its customers with products and services that meet or exceed industry standards.

References

Prysmian Cables & Systems has a long history of innovation and excellence in the cable industry. The company has been involved in many significant projects around the world, including:

- The longest HVAC submarine energy system
- One of the biggest three-core extruded AC submarine power cables
- The longest EPR submarine energy system
- The first EPR submarine energy system

These projects represent the company's commitment to providing innovative solutions and reliable products to meet the needs of its customers.

Track Record

Prysmian Cables & Systems has a long history of success and innovation in the cable industry. The company has been involved in many significant projects around the world, including:

- A milestone in terms of transmitted power (1200MW)
- A milestone in terms of size and weight
- A milestone in terms of depth (615 m), at that time

These projects represent the company's commitment to providing innovative solutions and reliable products to meet the needs of its customers.

SUBMARINE ENERGY SYSTEMS

YOUR ENERGY... OUR SYSTEMS... ANYWHERE
Among the renewable energy sources presently being investigated and developed, wind energy seems to be the most attractive and promising. A rapidly increasing number of countries is planning to install wind farms offshore, mostly in Northern Europe. Offshore windmills also require a considerable increase in the number of windmills being installed off-shore, and this is particularly true of those with capacities in excess of 200 MW.

The extruded technology proves suitable also for HVDC medium/high voltages (i.e. up to 150 kV). Thanks to recent developments this type of cable is presently adopted at high temperatures (90°C) and at high electrical stresses. This or XLPE dielectric offers several remarkable advantages and possibilities, of which the most evident are the following.

- Possibility of omitting metallic sheaths, reduced cable weight.
- Improved thermal performances and paved the way for system design optimization.
- Underlying layers, such as screen and insulation.
- Obtained electrical performances and some advanced technical solutions.

Where system requirements permit, the use of an extruded (PPL) dielectric offers considerable advantages and possibilities. The use of innovative solutions, such as the development of screening systems, introduces an additional protection for the submarine interconnections.

The availability of innovative solutions together with a comprehensive know-how of all phases of the project development, is one of the main factors that determine the success of submarine systems, and in many cases this key factor means the difference between success and failure in the whole project. The same holds also for its installation. They also require tighter delivery times for submarine systems and acceptable returns for the investors they are financed by.

On the other hand, utilities consortia are moving to higher power transmission capacity systems and are economically feasible submarine systems with capacities in excess of 200 MW are now considered as an area for investigation. They aim to meet the needs of this new market, as well.