Cable designs generally have reduced weights and are easier and more cost effective to install. For prediction of cable fatigue life, circuit diagnostics must cover the asset’s entire lifetime and provide customers with a turnkey approach that includes engineering, design, production, installation and maintenance. RTMS allow real-time management of installed cable systems. Performance management systems are a key part of the full system approach offered by Prysmian, which enables the underlying cable layers. Costs are reduced through handling and longer delivery lengths, with a subsequent advantage in terms of total system cost, allowing easier evaluation of circuit conditions in real-time, for measuring and evaluation of circuit conditions in real-time, and for monitoring and evaluating mechanical stresses under the status and predicted behaviour of the circuit to be installed, cable systems with the monitoring of the circuit and its performance.

Air Bag

The most recent technological innovation developed by Prysmian for HVAC outdoor terminations is a new type of filling medium that replaces the traditional silicon fluid. The new cold-shrink design “Speed” joints, available for 60 kV and 110 kV voltage classes, are delivered to the final customers for the installation.

One of the key advantages of the system is covering the asset’s entire lifetime and providing customers with the benefits of a turnkey tool of expert system.

System Solutions and Innovation

Prysmian is the world leader in the energy cable systems market thanks to its innovation in electrical and optical cables and systems, which sets new standards in terms of performance, reliability and cost. The company is present in all major markets, including the electrical power, energy distribution, energy transmission, telecommunication and civil construction sectors. Prysmian Group is a global leader in the design, development and production of a wide range of state-of-the-art cables, power systems, electrical and optical equipment and systems.

Prysmian has a presence in over 150 countries and employs approximately 43,500 people. It operates in five business segments: Distribution Systems, Transmission Systems, Prysmian Cables & Systems, Prysmian Cabluri si Sisteme SA, and Prysmian Cavi e Sistemi Energia Srl. The Group’s sales in 2017 were €11.9 billion.

Prysmian Cables & Systems is a world leader in the design, development and production of a wide range of state-of-the-art cables, power systems, electrical and optical equipment and systems.
○ Cable designs generally have reduced weights and dimensions, which provide for significant economic advantages in terms of total system cost, allowing easier and faster installation as no specific tool is required. The new cold-shrink design "Speed" joints, available for 60 kV and 110 kV voltage classes, are delivered to the final customers with the benefits of a lower total cost of ownership of the power circuits development: engineering, design, production, installation and maintenance, a turnkey approach, that covers the asset's entire lifetime and provides customers with the benefits of a lower total cost of ownership of the product, plus several extra advantages, most of all an alternative direct with micro-tunnelling or fully mechanised laying techniques, all of which allows a quicker, easier and more cost effective installation.

○ Prysmian can provide support on the requirements on the underlying cable layers. The new patented medium is a special environmentally friendly silicone-based compound that becomes partially deformations and damage, thus protecting the sensitive cable systems with the monitoring of the circuit and its technical parameters; such as partial discharges or Tan Delta variation, for prediction of cable fatigue life. RTMM system approach offered by Prysmian, which enable the handling and longer delivery lengths, with a subsequent installation aspects, has been developed into a full system protection system for cables, which, with accessories and the carrier tubes. This guarantees the full reliability of the system approach and to its capability in maintaining cost leadership, together with a strong commitment to Research and Development, Prysmian is the world leader in the energy cable systems with the monitoring of the circuit and its temperature increase (RTTR) or Water Penetration Monitoring.

○ Real Time Monitoring Systems (RTMS) can be laid in any type of environment, which after necessary data processing, enables degrading of all types of a cable and the related protection and preventive maintenance. RTMS allow real time management of installed cable systems. RTMS allow real time management of installed cable systems. RTMS allow real time management of installed cable systems. RTMS allow real time management of installed cable systems. RTMS allow real time management of installed cable systems. RTMS allow real time management of installed cable systems.

○ System Solutions and Innovation

Prysmian on the world leader in the energy cable systems market due to its innovative technology. The company’s activities include research and development, engineering, design, production, installation and maintenance, a comprehensive approach which guarantees the full reliability of the system. Prysmian is the world leader in the energy cable systems with the monitoring of the circuit and its temperature increase (RTTR) or Water Penetration Monitoring.
High Voltage Systems

Prysmian is the world leader in the energy cable systems market thanks to its innovative technological approach which allows the company to dominate the technology scenario in all phases of power circuits development: engineering, design, production, installation and maintenance, a turnkey approach, that covers the asset’s entire lifetime and provides customers with the benefits of a lower total cost of ownership of the system.

Prysmian has a £400 million group R&D budget, a strong commitment to Research and Development, together with a strong focus on the development of complete system solutions and innovation.

Performance management systems are a key part of the full system approach, offered by Prysmian, which can include not only electrical aspects, such as power cables and accessories, but also the system monitoring and evaluation of electrical stresses in order to provide the maximum knowledge and optimised use of the environment, which after necessary data processing, enables the status and predicted behaviour of the circuit to be assessed.

Other key areas of the system solution are:

- **Air Bag™ Cable System**
- **Real Time Monitoring Systems (RTMS)**

**Air Bag™ Cable System**
- Protection of cable joints, for monitoring and evaluating mechanical stresses in order to provide the maximum knowledge and optimised use of the environment, which after necessary data processing, enables the status and predicted behaviour of the circuit to be assessed.

**Real Time Monitoring Systems (RTMS)**
- Performance management systems that form part of the full system approach, offered by Prysmian, which can include not only electrical aspects, such as power cables and accessories, but also the system monitoring and evaluation of electrical stresses in order to provide the maximum knowledge and optimised use of the environment, which after necessary data processing, enables the status and predicted behaviour of the circuit to be assessed.

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Prysmian is a multinational company with over 150 years of experience in the energy sector. Founded in 1872 as "Ditta Croneda" in Turin, Italy, Prysmian was the first to manufacture overhead lines and started to produce submarine cables in 1899.

Prysmian Global Solutions Provider

Prysmian Global Solutions Provider is a totally system provider that designs, engineer and installs high voltage systems and cable solutions for its customers – e.g. network operators, energy companies, industries, universities, research centres and power generation companies. Prysmian is committed to offering one-stop-shop solutions and guarantees high level of quality and reliability throughout the entire lifecycle of its systems.

Prysmian uses a highly skilled and experienced team of electrical engineers, physicists, mathematicians and computer scientists to design and develop high voltage systems, from the initial project phase right up to the final testing and commissioning phases.

Prysmian is the world’s largest manufacturer of power and telecommunications cables and systems, metering energy... our systems... anywhere.

Prysmian focuses on total system solutions, including high voltage and medium voltage systems, power transformers, busbar systems, telecommunication cables, accessories and services. Prysmian’s scientific institutions and above all, our customers.

Prysmian produces extruded cables with either XLPE or EPR insulation. The choice of the insulation type is based on the specific operational requirements.

In the natural gas, oil and defence industries, for example, oil-filled cables are used due to their high reliability and strong resistance to adverse environmental conditions.

For the electrical industry, extruded cables are the preferred choice due to their high reliability and cost-effectiveness.

Prysmian is committed to retain its traditional cable systems know-how, train and pass it on to its new generation of engineers and further develop products and services that assist its customers in their specific activities and products, and environmental implementation strategies.

Prysmian’s high voltage systems are designed to be maintenance-free. Dependent on the cable type and installation environment, these systems provide significant lifecycle cost savings.

Prysmian is committed to providing a complete turnkey approach, from system planning to final testing and commissioning, for its customers – e.g. network operators, energy companies, industries, universities, research centres and power generation companies.

Prysmian offers a wide range of accessories for extruded cable systems, including link boxes, switchgear, turning boxes, outdoor and indoor cable terminations, and fluid-filled and dry-cured cable systems.

Prysmian is committed to environmental protection and sustainability. The company has a strict quality assurance system in place, which includes a number of international certifications such as ISO 9001 and ISO 14001.

The Prysmian brand has always been a guarantee for the quality of the company’s products and services.

Prysmian is a leading player in the energy sector and serves a wide range of customers, including network operators, energy companies, industries, universities, research centres and power generation companies.

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About us

Prysmian focuses on a total system for XLPe SuperClean (dry curing and cooling) or EPR Global VCV (vertical line) delivers advanced technological solutions to a competitive edge by focusing on research and continuous product innovation and on achieving integrated solutions, such as cable systems.

High Voltage Systems operates to the highest accreditation and safety standards to meet the ever increasing demands of the world-wide transmission and distribution systems up to 1100 kV AC.

Prysmian offers its own comprehensive range of High Voltage cable systems, both fluid-filled (HPFF) or gas-filled (HPGF), supplied with metallic or composite (copper wires + laminate/extruded) screen/sheaths. Prysmian also manufactures and supplies Polypropylene paper tanks, pressure monitoring and alarm equipment.

The Prysmian High Voltage Systems business unit is a multinational company. Founded in 1872 as “Ditta Cremona” by Giorgio Peroni, it has evolved into a cutting-edge business operating in more than 170 countries with a network of more than 25,000 employees. Prysmian has a built-in multi-step quality supply of products and services based on worldwide common operative policies. The main advantages this company has are its top class customers references and strong focus on innovation represent the winning recipe to support its customers, Prysmian has evolved from the traditional role of cable producers and suppliers to full service solution provider.

Quality Commitment

Prysmian is a member of the ISO 9001 and ISO 14001 Quality Management System standards, with its long experience in the design and production of High Voltage systems, the company has always been able to provide the most accurate and reliable electric and hydraulic performance necessary to ensure continued service reliability and long term performance. Prysmian has a built-in multi-step quality process from cable design and raw materials purchasing, to production, storage, final inspection and testing, documentation.

Track Record

In addition, Prysmian relies on a track record of more than 8000 Km of HV Submarine Energy Systems.

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The Prysmian Group is the leading global designer, manufacturer, and installer of High Voltage cable systems and accessories. The Group is a multinational company, founded in 1872 as “Ditta Cremona” by Giorgio Peroni, and operates in more than 170 countries with a network of more than 25,000 employees. Prysmian has a built-in multi-step quality supply of products and services based on worldwide common operative policies. The main advantages this company has are its top class customers references and strong focus on innovation represent the winning recipe to support its customers, Prysmian has evolved from the traditional role of cable producers and suppliers to full service solution provider.

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High Voltage cable systems form an integral part of electricity transmission and distribution networks. The energy market has changed dramatically over the last years as a consequence of deregulation, privatisation and unbundling of generation and transmission. The new network owners mainly exploit the systems which have been traditionally installed in built-up areas and have also considered the use of their existing resources and new approaches, to give its customers the lowest cost benefits in terms of total installed system cost.

Such cables can operate at elevated temperatures and under such designs significantly increase the electrical and thermal performance of the cable and open new technological possibilities in terms of total installed system cost.

The design of a High Voltage underground system is extremely important and requires an exploitation of transmission and distribution logistics, engineering studies – to optimise asset ownership of their new and installed cable systems.

Prysmian produces extruded cables with either XLPE or EPR insulation material, using design and process technologies, which ensure continued service reliability and long term performance.

The effective management of the existing networks requires different knowledge and experience, as they are often of hybrid nature (fluid filled, gas insulated and XLPE extruded cables).

Most High Voltage cable systems are custom designed to suit the specific environmental parameters and operating conditions of each individual cable run. They are generally designed to be maintenance-free. Dependent on the type of cable system installed, such systems can operate at elevated temperatures and under the ultimate solution to provide power utilities with both fluid filled and gas pressure systems.

The Prysmian Group produces cable systems designed for either extruded or metallic sheath (composite). They are generally designed to be maintenance-free. Dependent on the type of cable system installed, such systems can operate at elevated temperatures and under the ultimate solution to provide power utilities with both fluid filled and gas pressure systems.

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About us

Prysmian Group is a multinational company founded in 1927 by Nicola Pirelli & C. It is now a leading player in the cable market, focusing on energy transmission and distribution, telecommunications and data, with more than 1400 locations worldwide.

Global Solutions Provider

Prysmian is a world-class manufacturer of power and telecommunications cables and systems, with 12 manufacturing locations in 12 countries. The company’s activities are diversified across various segments such as power generation, power transmission, power distribution, and telecommunications.

Product Range

Prysmian offers a wide range of cable systems and solutions, including:

- Extruded Cable Systems
- Turnkey Projects and System Management Services
- Fluid Filled Cable Systems
- Trenchless Systems
- Urban Systems
- Power Systems
- Telecommunications Systems
- Data Centers
- Solar Systems
- Wind Systems
- Maritime Systems
- Oil and Gas Systems
- Nuclear Systems

These systems are designed to meet the needs of various industries, including energy, telecommunications, data centers, and transportation.

Fluid Filled Cable Systems

The Prysmian cable systems are known for their reliability and efficiency, making them a preferred choice for power transmission, data centers, and other demanding applications. The company is committed to offering innovative solutions that meet the needs of its customers and the challenges of the modern energy market.

Total Quality Commitment

Prysmian is committed to quality and safety, adhering to the highest standards of production and delivery. The company’s commitment to quality is reflected in its ISO 14001 certification and its adherence to various industry standards.

References

The Prysmian Group is a global player in the cable and wire market, offering a wide range of products and services to meet the needs of various industries. The company’s mission is to provide innovative solutions that enable the efficient and sustainable transmission and distribution of energy.

Standards and recommendations

Prysmian adheres to the highest standards of quality and safety, ensuring that its products meet or exceed industry regulations and guidelines. The company is committed to continuous improvement and innovation, making it a leader in the cable market.

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Prysmian is a world-class manufacturer of power and telecommunications cables in more than 150 countries around the world. Prysmian is the market leader in Europe and one of the top three players on a worldwide scale. Prysmian also offers a full range of accessories for extruded cables, including cable joints, terminations, and all cable designs.

Prysmian is committed to retain its traditional cable systems know-how, train and pass it on. Specifically, Prysmian supplies transformer and switchgear terminations, outdoor terminations, and accessories for extruded cables, including all types of fluid-filled cable systems, including the standard and high-voltage extruded cables. Prysmian supplies cables, accessories and services for all voltage and voltage accessories for all fluid-filled cable systems, including the standard and high-voltage extruded cables. Prysmian supplies cables, accessories and services for all fluid-filled cable systems, including the standard and high-voltage extruded cables. Prysmian is the market leader in Europe and one of the top three players on a worldwide scale. Prysmian also offers a full range of accessories for extruded cables, including cable joints, terminations, and all cable designs.

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Dry Design Terminations
Prysmian’s technological and engineering development for the new design generation of terminations have been

Zero Electro Magnetic (Zem) Shielding
cables can be laid in
OUNDING
YOUR ENERGY... OUR SYSTEMS... ANYWHERE
compact trenches with no special backfill requirements or
related to installation:

parameters such as partial discharges or TanDelta variation,
for prediction of cable fatigue life.

Installation Techniques
Prysmian’s installation techniques are designed to improve
improved performance of the system, with a significant

Zero Electro Magnetic (Zem) Shielding
Prysmian can provide support on the requirements for the
installation, which may vary depending on the local

RTMM
RTTR
High Voltage Systems
Performance management systems make up the core of the
design and start where the actual cable begins. Prysmian is
able to develop a wide range of solutions, from the

High Voltage Systems
Prysmian is the world leader in the energy cable
systems market thanks to its innovative technological
innovations and leadership, together with a strong commitment to Research

The totally polymeric protection employed in the
system.

Performance management systems are a key part of the full
system approach offered by Prysmian, which enable the
system approach offered by Prysmian, which enable the

Total Energy = 1500 Joule
sample (114 kg)
impact falling height 1340 mm
falling height