

DATA CENTRE SOLUTIONS

Powering Tomorrow's World



ACCELERATING GROWTH

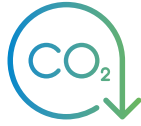
As the world leader in cable manufacturing, Prysmian believes in the effective, efficient and sustainable supply of energy and information as a primary driver in the development of communities. We stand apart in our ability to deliver end-to-end solutions for both energy transmission and telecom networks, and provide major global organisations in multiple industries with best-in-class products and services based on state-of-the-art technology.

The challenges and opportunities before us demand that we harness the power of human ingenuity to drive new forms of energy and information to each and every corner of the earth – and faster than ever.

With deep expertise, relentless innovation, and global reach, Prysmian delivers energy and data wherever it's needed. Our advanced cable technologies are driving the future of electrification and digitalisation, powering the circular economy, and strengthening grid resilience. We help you stay focused on what matters most, wherever you operate.

Together, we can lead the way towards a brighter, smarter, more sustainable future for people, communities, and businesses.

Together we will accelerate growth.



CARBON FOOTPRINT

Prysmian aims to reduce its environmental impact by minimising emissions across operations, supply chains, and product lifecycles. This involves using renewable energy, energy efficient practices, and optimised production processes. Prysmian also focuses on developing low-carbon solutions to support the global shift to sustainable energy and digitalisation. By integrating sustainability into its business strategies, Prysmian aims to combat climate change while delivering quality products and services.



OUR COMMITMENT

Our commitment to a low-carbon future remains unwavering as we strive to create sustainable solutions while upholding quality standards. We prioritise sustainability and environmental protection in our daily operations, collaborating with local communities and ensuring workplace safety.



OUR GOALS

Our goals focus on sustainability leadership, transitioning to a low-carbon world, and fostering an inclusive work environment. Prysmian's Climate Change Ambition aligns with the Paris Agreement, targeting emissions reduction and neutralisation. We aim to enhance diversity, equality, and inclusion by 2030, empowering women and prioritising community engagement.

WHERE SUSTAINABILITY MEETS INNOVATION

Pioneering Cable Solutions
for a Brighter Future



At Prysmian, sustainability is the driving force behind everything we do.

Our cable solutions minimise environmental impact while perfectly aligning with our customers' needs. Our products with Al conductors include low-carbon aluminium and we use recycled materials such as copper, PE, and PVC. By the end of Q3 in 2024, we increased our use of recycled content to over 20%. Our plants run on renewable energy. In 2025, we expanded our CEE in-house solar energy production capacity from 6 MW to 14 MW.

Did you know?

Prysmian is leading the charge in green innovation. By optimising operations for resource efficiency and promoting responsible practices throughout the entire supply chain, we're crafting a sustainable future in technology.

Our Sustainability Priorities



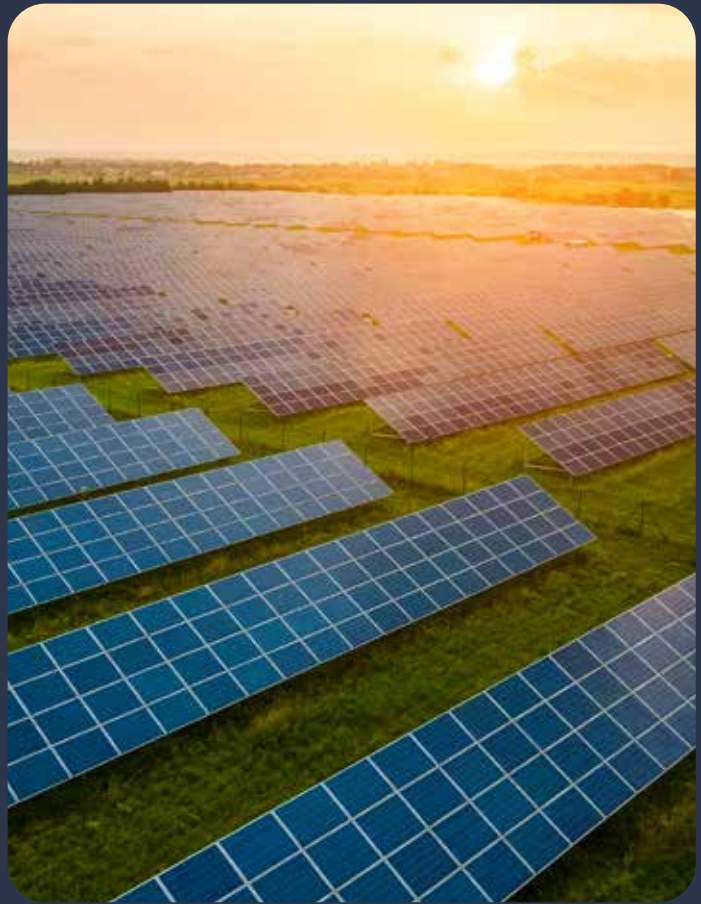
Enabling accessible and innovative energy.



Promoting responsible resource use and sustainable supplies.



Supporting communities and individuals.



Sustainable Development Goals – Prysmian’s corporate framework is aligned with the 17 Sustainable Development Goals (SDGs) defined in the UN’s 2030 Agenda. The SDGs aim to foster a better future for people and the planet.



Science Based Targets – Prysmian pursues an emissions reduction strategy in alignment with the Science Based Targets Initiative (SBTi), an organisation committed to voluntary corporate climate action.



Responsible Mica Initiative – In 2021, Prysmian was the first company in the cables sector to join the Responsible Mica Initiative (RMI), a non-profit organisation dedicated to the elimination of child labour and exploitative working conditions in the mica supply chain.



EcoVadis Gold Medal – In 2025 Prysmian was once again awarded the EcoVadis gold medal for our unwavering pursuit of sustainable excellence. We rank among the top 5% of companies in the world evaluated by EcoVadis. Our many strengths include our comprehensive environmental policies for production, product use, and resources as well as our objectives for energy consumption and waste management.

E PATH

The New Standard in Cable Sustainability



E Path

Prysmian is proud to introduce E Path, a pioneering eco-labelling system tailored to the needs of the cable industry. In line with EU ecolabel standards, this innovative approach sets a new benchmark for sustainability.



AT PRYSMIAN, WE ARE COMMITTED TO SUSTAINABLE EXCELLENCE.

Each cable family must pass a rating process based on the following criteria:



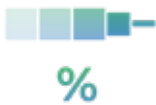
CARBON FOOTPRINT

Determination of a cable's overall climate impact



RECYCLING INPUT RATE

Presence of recycled materials in the cable



PERFORMANCE EFFICIENCY

Higher transmission efficiency means more performance sustainability



NO TOXIC SUBSTANCES

Absence of CMR or environmentally harmful substances in the cable



ENVIRONMENTAL BENEFITS

Low-carbon products (including cables used for green energy sources), CPR-compliant products



RECYCLABILITY/ CIRCULARITY

Presence of potentially recyclable material, reclaim/recovery potential

LOW-CARBON, HIGH-VALUE

Toward a net-zero future, one meter
of cable at a time

Recycled metals, biopolymers, circular plastics, aluminium extracted with renewable energy: Prysmian integrates a wide spectrum of low-carbon materials for a stronger E Path score and a greener world.

Prysmian designs high-performance custom cable solutions with a reduced carbon footprint.

LOW IMPACT SOLUTIONS

- ✓ Recycled copper
- ✓ Recycled PE
- ✓ Bio-attributed PVC
- ✓ Low-carbon aluminium

We provide sustainable solutions without compromising on performance or reliability.



DATA CENTRES

Enabling enhanced performance

Smart homes. Automated cars. Remote surgery. All require increased fibre optics, faster data transmission, and robust computing.

As the world leader in cable manufacturing, Prysmian believes in the effective, efficient and sustainable supply of energy and information as a primary driver in the development of communities.

The rise of Artificial Intelligence (AI) and Machine Learning (ML) has transformed the way data centres operate. AI workloads demand unprecedented bandwidth, low latency, and energy efficiency.

SPEED, CAPACITY, RELIABILITY.

PRYSMIAN OFFERS COMPREHENSIVE SOLUTIONS.

Data centres are vital for storing, communicating, and transporting vast quantities of data. Yet many current data centres are outdated and inefficient. Slow or unreliable data access leads to decreased customer satisfaction, revenue loss, and inaccessible vital services.

Focused on developing cutting-edge and sustainable solutions:



DOWNTIME RISKS

Downtime is a significant issue for data centre operators and business owners alike. Low-quality cables or lengthy installation times are primary causes of downtime.



SCALING CHALLENGES

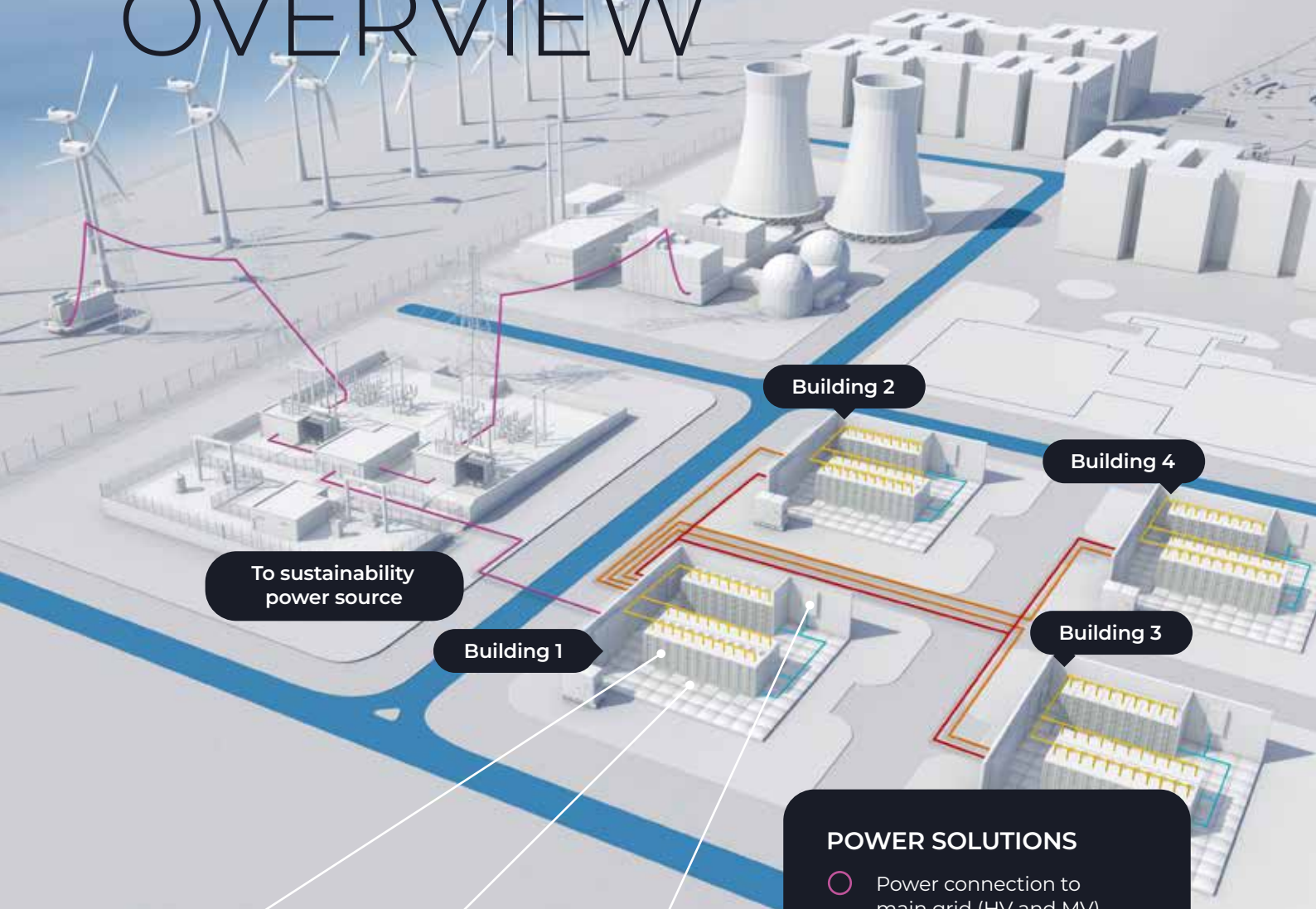
Scalability is crucial to accommodating next-generation applications, yet many operators struggle to provide adequate infrastructure.



SPACE CONSTRAINTS

Operators must handle increasing cable volumes both in and out of their data centres, often with legacy infrastructure.

DATA CENTRE OVERVIEW



To sustainability power source




Building 2

Building 4



Building 1

Building 3

POWER SOLUTIONS

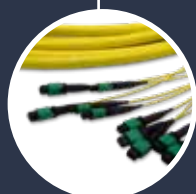
-  Power connection to main grid (HV and MV)
-  Local power distribution
-  Indoor power distribution

TELECOM SOLUTIONS

-  Data centre interconnect (campus, metro, long haul)
-  Indoor preconnectorised solution



Prysmian's UHD distribution solution



Preterminated solutions



EOSS cable monitoring technology



HV cable



Prysmian energy MV + EOSS



Prysmian energy LV



High-density FlexRibbon™



Preconnectorised UC connect

ENERGY CABLES FOR DATA CENTRES

Our cables are ideal for buildings requiring high levels of fire safety. They are designed to protect human life as well as equipment without compromising on performance.



ADVANCED SAFETY FEATURES

LSOH with improved fire safety, meeting the highest safety standards.



PREMIUM QUALITY

Made with best-in-class materials, ensuring maximum durability.



ENHANCED ERGONOMICS FOR EFFICIENCY

User-friendly design that is flexible and easy to strip.



LOWER CARBON FOOTPRINT

Green energy and low-impact materials for sustainable products.



FUTURE-READY DESIGN

Compliant with the latest standards and customer requirements for reliable performance.



LOW VOLTAGE CABLES FOR DATA CENTRES

LOW VOLTAGE HALOGEN-FREE INSTALLATION CABLES



XMK-HF (N2XH) 1 kV B2ca-s1a,d1,a1

These cables with copper conductors are Low Smoke Zero Halogen (LSZH), recommended for fixed installations in public buildings, industrial complexes and spaces where safety is a must.



UV Resistant



MCMK-HF C-PRo 1 kV

These cables are specifically designed with enhanced fire retardant properties, tailored to critical environments like hospitals or schools. They are halogen-free and emit minimal smoke, ensuring safety in case of fire.



UV Resistant



AFUX-HF C-PRo 1 kV

These cables are designed with improved fire retardant qualities, suitable for building and industrial installations. **Also available in 500 V version.**



XMK-HF C-PRo

Low smoke halogen-free 1kV single core cable for fixed installation indoors and outdoors, and as a part of cable bus system. Especially for circumstances where it is required to have installation cables with a low emission of smoke and corrosive gases in case of fire.



UV Resistant

LOW VOLTAGE FLEXIBLE CABLES



H07ZZ-F 750 V B2ca-s1a,d1,a1

High-performance, flexible power cables that meet the highest safety standards for fire, smoke and toxicity (LSZH). Designed for indoor and outdoor applications where human life and valuable equipment are at risk from fire.



UV
Resistant

Abrasion
Protection



H07RN-F HF 750 V Eca (ATON VSB)

These versatile cables are suitable for environments such as transportable motors or machines on construction sites. They are also the right choice in agricultural settings and even in explosive or flammable settings.



UV
Resistant

Abrasion
Protection



RZ1-K 1 kV B2ca-s1a,d1,a1

This low smoke halogen-free (LSZH) and easily strippable cable is ideal for public spaces. It helps to protect people and electronics from harmful or corrosive gasses in case of fire.



UV
Resistant

LOW VOLTAGE EARTHING CABLE



MKEM-HF C-PRo 750 V (H07Z1-K)

These low smoke halogen-free wires are used for fixed protected installations, including lighting fittings, switch and control gears. They are suitable for environments where the risk of fire, smoke emission, and toxic smoke poses a threat to life and equipment.



MK-HF C-PRo 750 V (H07Z1-R)

These wires are used for fixed protected installations, including lighting fittings, switch and control gears. They are suitable for environments where the risk of fire, smoke emission, and toxic smoke poses a threat to life and equipment.



FIRE-RESISTANT CABLES



FIRETUF FRHF-EMC 1 kV

Reliable fire-resistant cables for maintained circuit integrity. They support safe evacuation and uninterrupted operation of critical systems and fulfil European fire resistant standard EN 50200 or EN IEC 60331-1.

LSZH

120
min



FIRETUF FRHF 100 V

Communication cables designed for safety-critical building installations. These cables fulfil European fire resistant standard EN 50200.

LSZH

120
min

MEDIUM VOLTAGE CABLES



FXQJ-TT PURE TSLI 12/20(24) kV

Halogen-free, flame retardant and self-extinguishing medium voltage power cable with radial and longitudinal water sealing used in indoor and outdoor applications.

LSZH

Dca
CPR

MEDIUM VOLTAGE CABLES FOR DATA CENTRES

HIGH FLEXIBLE MEDIUM VOLTAGE CABLES

Prysmian offers a wide range of medium voltage (MV) cables for commercial, industrial and urban residential networks. Our electrical equipment is manufactured with quality in mind, so you can be sure you are receiving a reliable product that delivers peak performance.

RELIABLE CABLE SOLUTIONS FOR LOCAL INFRASTRUCTURE

Constructions like data centres and industrial parks require an efficient, reliable source of power. Our medium voltage cables are manufactured to support infrastructure at this level, and our customers trust us with supplying electrical equipment that is up to the highest standards.

Key Features

- ✓ High-ampacity conductors and insulation for safe power transmission
- ✓ Higher transmission efficiency for a smaller carbon footprint
- ✓ Stable power for reliable systems thanks to robust MV cables
- ✓ Low Smoke Zero Halogen design for enhanced fire resistance and minimal toxic emissions



FELTOFLEX Grid Connect

(N)TMCHXOEU

Experience unparalleled flexibility with our Feltoflex® cable, redefining flexibility standards in the industry. Our cutting-edge technology allows for small bending radii that almost seem to bend the laws of physics. Originally designed for wind power stations, our Feltoflex® cable boasts unrivaled pliability, making it ideal for applications where space is limited and mobility is crucial.



(N)2XSH B2ca d0

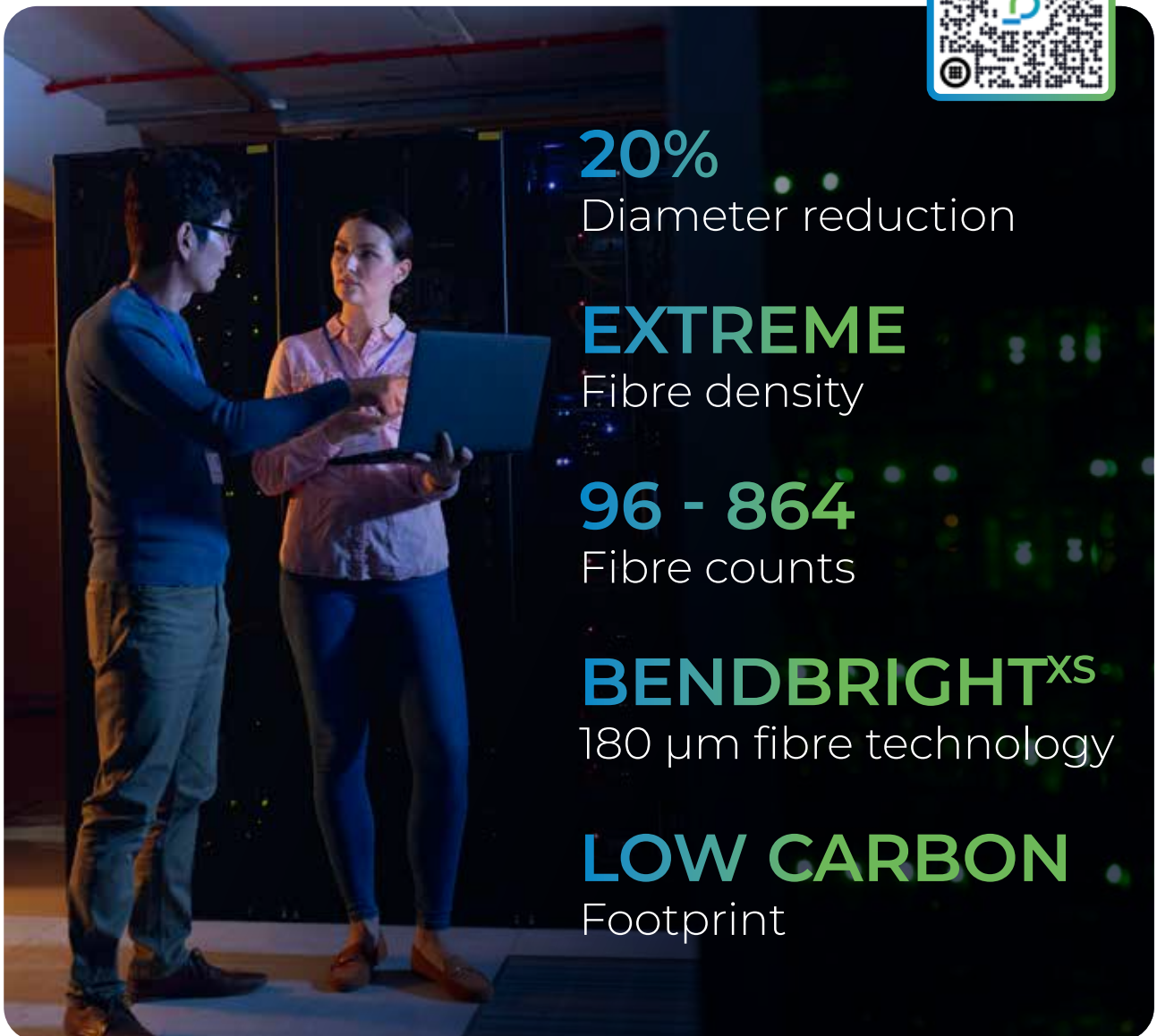
Prysmian's medium voltage low-smoke zero halogen cables are perfect for any space where fire safety is essential. Designed with high-traffic areas and enclosed environments in mind, these cables are in the B2ca fire safety class. These cables help facilitate efficient evacuation and protect equipment, making them the safe choice for hospitals, shopping malls, train stations and power plants.



DIGITAL SOLUTIONS

Introducing a trifecta of cutting-edge fibre optic solutions: **SIROCCO** Microcables, **SIROCCO^{HD}**, and Prysmian's **Flextube[®]** Family.

SIROCCO Microcables offer a 20% diameter reduction for swift and economical installations, while **SIROCCO^{HD}** boasts higher fibre counts, minimizing civil works costs and environmental impact. **Flextube[®]** revolutionises cable technology, offering easy fibre access and thermal stability, catering to diverse needs with options ranging from single-fibre units to 864-fibre duct cables. Experience the future of connectivity with Sirocco Extreme, featuring unparalleled fibre density, ensuring faster, more cost-effective installations and meeting stringent international standards.



20%
Diameter reduction

EXTREME
Fibre density

96 - 864
Fibre counts

BENDBRIGHT^{XS}
180 µm fibre technology

LOW CARBON
Footprint

INTERCONNECTING DATA CENTRES

Our Ultra-high Density Solutions

Our Ultra-High-Density (UHD) suite enables data centre operators to scale their network in limited legacy space quickly, easily and accurately.

The need for bandwidth has pushed data centre operators to deploy hundreds and thousands of fibres. This makes managing cables very difficult. Installation takes time, and scaling up and down can be particularly challenging.



UHD FlexRibbon™ Fibre Cable

Originally developed for our hyperscale data centre customers, Prysmian's UHD cables – featuring FlexRibbon™ technology – are designed to maximise fibre density and duct space utilisation and will support major largescale data centres worldwide. FlexRibbon™ is compatible with existing splicing technology (200-250 µm fibre splicing).



High-Density Fibre Panel

Prysmian's High-Density (HD) Fibre Panel was developed specifically for high-density fibre installations in hyperscale and carrier-based fibre networks. The panel is modular and flexible thanks to its cassette-based design and is available in 1U, 2U, and 4U fibre footprints.

Supporting Communication for Stronger Communities

As the worldwide leader in energy and telecom cable solutions, Prysmian believes in the effective, efficient and sustainable supply of energy and information as a primary driver in the development of communities. Experience seamless connectivity, expanded bandwidths, and adaptable solutions that evolve with your needs. Explore our diverse range of products, including copper and fibre Cables for bustling offices, Optical and Copper Cables for studio essentials, Coaxial RF Cables for modern communication, and Base Station and Antenna Connections redefining mobile networks. Shape the future of connectivity with us, where entertainment and information are at your command.

We support wholesalers, resellers and OEMs with solutions designed to meet both current and future demands - always with absolute reliability and total flexibility. Along with reliability and flexibility, our solutions are designed for greater bandwidths.



EOSS ADVANCED MONITORING SOLUTIONS

Unlocking the Power of Data-Driven Efficiency

Reliable and safe electrical systems are crucial when it comes to power distribution. Data centres are especially vulnerable to disruptions from power outages or malfunctions, leading to significant risks and economic losses.

EOSS: REVOLUTIONISING POWER MANAGEMENT

Electrical and Optical Sensing Solutions (EOSS) is a groundbreaking technology for electrical system monitoring and condition assessment. It provides online, accurate, and reliable measurements, diagnosing and localising defects remotely. This results in enhanced grid reliability, safety, and cost efficiency for utilities and industries.

Key Features

- ✓ **REAL-TIME DATA**
Monitoring conditions, malfunctions, and overheating without the need for specific expertise.
- ✓ **COMPREHENSIVE COVERAGE**
Suitable for electrical equipment from 3 kV to 600 kV, including cables, transformers, and switchgear.
- ✓ **FLEXIBLE SOLUTIONS**
Configurable for specific maintenance and asset management strategies.
- ✓ **INTEGRATED MONITORING**
Continuous or temporary monitoring of key parameters like partial discharge, temperature, and humidity.
- ✓ **ADAPTABLE PLATFORM**
Compatible with various SCADA protocols, customisable to customer requirements.
- ✓ **ADVANCED TECHNOLOGY AND DATABASE**
Harnessing IoT and a cloud-based system with over three million measurements for effective monitoring and continuous improvement.



NETWORK COMPONENTS

Comprehensive One-Stop Solutions

At Prysmian, we understand that seamless cable infrastructure is crucial for smooth data centre operation. This is why we provide extensive solutions beyond cables: Our expertise extends to a wide spectrum of network components, ensuring that data centres are fully equipped with the highest quality products.

Our portfolio of accessories includes a vast range of joints, terminations, separable connectors and other accessories, e.g. cleats and glands. No matter if you need components for low, medium or high voltage cables: we provide you with all elements required for comprehensive cable infrastructure.



DOWNLOAD BROCHURE



Prysmian's premium cables are the best choice for ensuring safe and reliable cable solutions for complex building projects. Prysmian is a one-stop shop for all necessary components and guarantees seamless integration and top performance.

Erik Varga
Product Manager



Innovation is at the heart of what we do. Our R&D team pushes the boundaries of cable technology. By focusing on sustainability and quality, we support the energy transition and provide future-proof solutions for data centres worldwide.

Vitezslav Kunc
R&D Engineer



The Top 5 Components for Data Centres



LOW VOLTAGE JOINTS

- Various types: straight, branching, unarmoured, and armoured
- Ready for immediate energization after resin injection
- Tested and approved by EN 50393 and IEC 61238 standards



CLICK-FIT FOR HIGH VOLTAGE

- Simple plug-and-power concept for easy and fast assembly
- Maximum reliability with maintenance-free operations
- Leading system for High Voltage cable accessories up to 72.5 kV



ELASPEED MEDIUM VOLTAGE JOINTS

- Coldshrink all-in-one EPDM design, available in LSOH outer protection and sensorised (Elaspeed S) versions
- Including shear-bolt connector, no special tools required
- Watertight and suitable for underground networks, cable trays, and overhead networks



ELASCON MEDIUM VOLTAGE JOINTS

- EPDM range-taking separable connectors, suitable for interface C 630A/1250A, indoor and outdoor
- Supplied with shear-bolt lugs
- Compatible with one or three core Medium Voltage cables, unarmoured, and armoured

ACCESSORIES



BICON CLEATS

- Designed for the highest performance standards
- Ensuring safe and efficient cable installation and operations
- Withstanding short circuits or faults



Choosing Prysmian was a game-changer. Their 'One Stop Shop' approach simplified our procurement process, supplying everything from cables to accessories. Their commitment to sustainability and quality confirmed we made the right choice for our business.

Wolfgang Bremikec
Customer

RESEARCH & DEVELOPMENT (R&D) CENTRES



Our 27 R&D centres around the world maintain close proximity to local markets, facilitating the acquisition of crucial technological innovations at competitive costs. We're dedicated to shaping a cleaner, safer future through projects aimed at enhancing energy and information delivery.

With sustainability at our core, we invest heavily in R&D, collaborating with 50 universities worldwide to develop skilled professionals capable of keeping us at the forefront of our industry. Our exceptional R&D capabilities include 27 Centres of Excellence, over 900 skilled professionals, and more than 5,600 patents. Our ambitious goals include powering wind farms in deeper waters, laying cables at 3,000 meters below sea level, and developing smart cables for maintenance communication.

A key aspect of our innovation capabilities is our collaboration with leading universities, spanning countries like Italy, Brazil, the USA, and China. For instance, the open innovation platform Corporate Hangar was founded in 2017 to foster projects beyond our core business. Notable successes include Alesea, Kablee, and Cultifutura, along with Prysmian Electronics' monitoring solutions for cable systems.

5,600+

Patents covering our main innovations

298

Product families launched during the year

27

Research centres

900

Professionals

50+

Collaborations with research centres and universities

GOOD ISN'T GOOD ENOUGH

Our commitment to quality is evident in our policies and processes, including the Prysmian Quality Management System (PQMS) based on ISO 9001. We prioritise continuous improvement, challenging objectives, and effective corrective action.

At Prysmian, we're not satisfied with just being good; we strive for outstanding quality in everything we do. Our global Quality Organisational Model ensures market-leading manufacturing excellence through rigorous monitoring processes at every stage of a product's lifecycle.

From raw material procurement to final delivery, we maintain strict quality standards, aiming for "zero defects" and a "right first-time" approach. Our energy and telecoms cables consistently meet the highest standards for customer satisfaction.



PQMS

Prysmian Quality
Management System



ISO 9001

Globally recognized standard
for quality management



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