

THE ONE-STOP SHOP FOR DATA CENTRES

Empowering tomorrow's world



THE ONE-STOP SHOP FOR DATA CENTRES



CONTENTS

Data Centre.....	6
------------------	---

An Invaluable Business Growth Opportunity

Infrastructure and Power Distribution Solutions.....	8
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Low Voltage Cables

Medium Voltage Cables

Network Components

EOSS Asset Monitoring Solutions

Data Transmission Solutions.....	20
----------------------------------	----

Ultra High Density (UHD) Solutions

High Density Connectivity

Multimedia Solutions

Sustainability.....	28
---------------------	----

Pioneering Cable Solutions for a Brighter Future

Research & Development.....	30
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Our Commitment to Quality

CONNECTING THE WORLD TODAY AND IN THE FUTURE

We're seizing the opportunities offered by market trends to become a global cable solution provider. From the depths of the ocean to the pinnacles of the world's tallest buildings, we drive new forms of energy and information to each and every corner of the earth.



We offer the widest range of services and know-how in the industry. Each year, Prysmian manufactures thousands of miles of underground and submarine cables and systems for power transmission and distribution, as well as medium and low voltage cables for the construction and infrastructure sectors. We also produce a comprehensive range of optical fibres, copper cables and connectivity systems for voice, video and data transmission for the telecommunications sector.

Connecting people and
businesses everywhere



150

Years
of Experience



+50

Countries



33k

Employees



+17B

Sales
in Euros

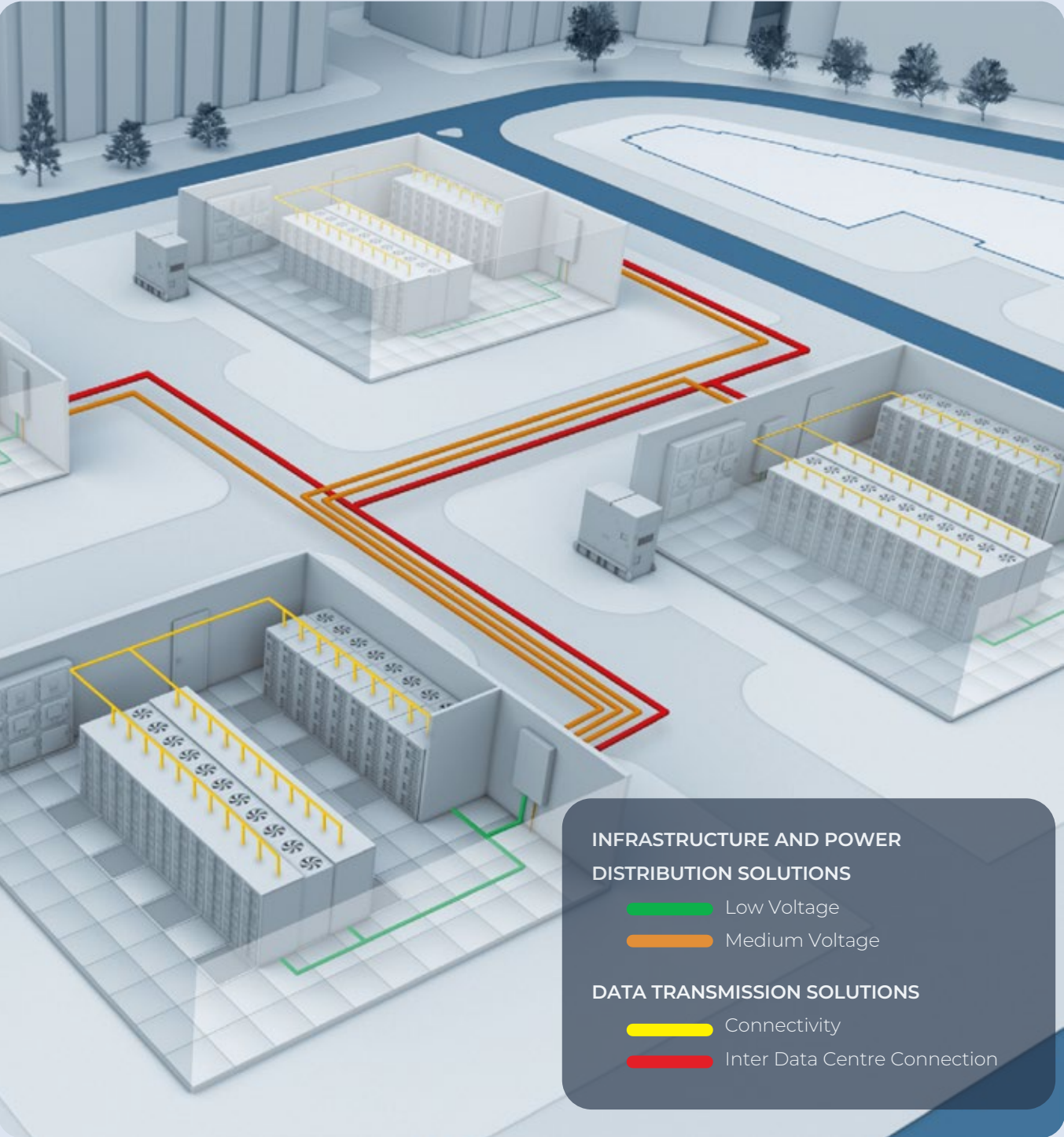
NAVIGATING THE WAY FORWARD

Leveraging our geographical footprint and breadth of products, valuable customer partnerships, unique people and strong commitment to sustainability and innovation, we're pushing the boundaries of electrification and digitalisation.

Connect, to lead.

DATA CENTRE

The data centres industry is evolving rapidly to meet the greater efficiency, sustainability, and security demands of a data-driven world.



As data centres evolve to support **AI** and **400/800G migration**, their workloads become more and more energy-intensive. Addressing data centres electrification, data management and transmission challenges requires innovative solutions and strategic planning.

As the world's largest cable solution provider leading the energy transition and digital transformation, Prysmian is uniquely positioned to assist developers and operators in meeting the unique

demands of modern data centres and their exponential growth to **enhance their infrastructure**, improve efficiency, and adopt sustainable practices, both locally and globally.

Choosing the right partner is critical. Prysmian combines global leadership with **deep regional experience in Southeast Asia**. We help you build scalable, future-ready infrastructure with confidence, adapted to local demands and conditions.

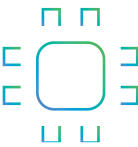
The one-stop shop for data centres: a comprehensive solution from Prysmian for a future-ready data centre:



INFRASTRUCTURE AND POWER DISTRIBUTION SOLUTIONS



MONITORING SOLUTIONS



DATA TRANSMISSION SOLUTIONS

We focus on developing cutting-edge solutions to address the ever-growing challenges of the data centres industry:



DOWNTIME THREATS

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 accommodate next-generation applications, yet many operators struggle to provide adequate infrastructure.



SPACE RESTRICTIONS

Operators must handle increasing volumes of fiber in and out of their data centres, often with legacy infrastructures.

INFRASTRUCTURE AND POWER DISTRIBUTION SOLUTIONS

A complete solution to ensure a seamless power delivery and operation to your data centre. Available for inside-building and outside-building applications, a variety of installation methods, and a wide array of accessories.

- **High Voltage (72.5-400 kV)**

Our High Voltage cable solutions are essential to ensure reliable and efficient power transmission and connect Data Centres to power generation sources and to the main grid. A full range with several design configurations and conductor sections available, up to 400 kV for power transmission and connection to the main grid. Cables are provided with joints and terminations to complete the systems.

- **Medium Voltage (5-35 kV)**

Our Medium Voltage cables deliver stable, efficient power from the grid or generators to your data centre's core infrastructure—ensuring uninterrupted performance and scalability.

- **Low Voltage (up to 1 kV)**

To power server racks, cooling, lighting, and security systems—ensuring reliable performance and optimal uptime across your entire data centre infrastructure

- **Network Components**

Designed for reliability and compatibility, our network components range from joints to terminations, connectors to glands, cleats, fixings, link boxes and resins - we offer the widest range of jointing and terminating solutions on the market.



E Path

Introducing E Path: sustainable by design.

As data centres grow more power-intensive, our E Path cables offer low-impact cable solutions that reduce carbon footprint and support energy-efficient, future-ready infrastructure.

With sustainability rooted in our DNA, each cable family has to pass a rating process based on the following criteria:



CARBON FOOTPRINT



SUBSTANCES OF VERY HIGH CONCERN



RECYCLABILITY/CIRCULARITY



RECYCLING INPUT RATE



ENVIRONMENTAL BENEFITS



CABLE TRANSMISSION EFFICIENCY

LOW VOLTAGE CABLES



DISCOVER OUR
LOW VOLTAGE
CABLES

LOW VOLTAGE HALOGEN FREE INSTALLATION CABLES



CU/XLPE/LSHF 0.6/1 kV

These cables with copper conductors are Low Smoke Halogen Free (LSHF), recommended for fixed installations in public buildings, industrial complexes and everywhere where people safety is mandatory.



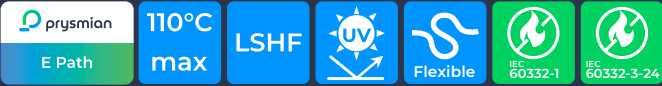
AFUMEX 110°C

Enhanced from Cu/XLPE/LSHF range, these cables are enhanced with superior conductor operating temperature to 110°C.



FLEXTREME AFUMEX 110°C

Superior conductor operating temperature to 110°C, flexible energy cable meets for high demands placed on cable installations in data centres. Cables offer with an ease of handling especially where there is a tight bending radius space.



CU/XLPE/LSHF/SWA/LSHF 600/1000 V

Galvanised steel wire (SWA) armoured version cables allowed good mechanical protection especially underground or multi-stacking in duct installation.



CU/EPR/LSHF 600/1000 V

These cables well fit to the requirement as UPS cables with ethylene propylene rubber (EPR) insulation and Class 5 conductor with a good flexibility for ease of installation



MAX-FOH 600/1000 V

These cables are specifically designed with enhanced fire-resistant properties, tailored for critical environments like hospitals, schools and similar structures. These cables are halogen-free and emit minimal smoke, ensuring safety during fire incidents.



FIRETUF MI CLASSIC SIFER (S) 600/1000 V

Superior conductor operating temperature to 110°C, these fire-resistant cables suitable for surface wiring and metal conduit or trunking where fire integrity is important.



LOW VOLTAGE CABLES

LOW VOLTAGE PVC CABLES



CU/XLPE/PVC 600/1000 V

Available in single- and multi-cores, Prysmian offers lead-free PVC cable range unarmoured cable.



CU/XLPE/PVC/SWA/PVC 600/1000 V

Galvanised steel wire (SWA) armoured version cables provides good mechanical protection especially underground or multi-stacking in duct installation.



LOW VOLTAGE EARTHING CABLES



CU/LSHF 450/750 V

These cables 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.



CU/PVC 450/750 V

Lead-free PVC version of earth cables with maximum conductor temperature rating of 70°C



MEDIUM VOLTAGE CABLES



DISCOVER OUR
MEDIUM VOLTAGE
CABLES



3.6/6 kV UPTO 18/30 kV
CU/XLPE/CWS/PVC

Medium Voltage Single Core, Copper Conductor, XLPE Insulation, Copper wire Screen and Lead Free PVC Outer Sheath for Indoor and Outdoor application



3.6/6 kV UPTO 18/30 kV
CU/XLPE/CWS/PVC/AWA/PVC

Medium Voltage Single Core, Copper Conductor, XLPE Insulation, Copper Wire Screen, PVC Inner Sheath, Aluminium Wire Armour and Lead Free PVC Outer Sheath for Underground application



AIRBAG 3.6/6 kV upto 18/30 kV
CU/XLPE/CWS/AB/PVC

Medium Voltage Single Core, Copper Conductor, XLPE Insulation, Tape, Copper Wire Screen, Polymeric shock absorber "Airbag®" compound and Lead Free PVC Outer Sheath for Underground application



WARRANTY AND SERVICE EXCELLENCE*

We go beyond standard warranties for medium voltage cables, providing unmatched service and confidence in our product quality.

3-year standard warranty
Enjoy a reliable warranty with every order of our Airbag™ cables.

4-year extended warranty
Employ our Partial Discharge Measurement Tool to secure a total of 4 years of coverage.



**Note: Warranties apply with proper handling and installation of the cables.*

NETWORK COMPONENTS



DOWNLOAD OUR
NETWORK COMPONENT
CATALOGUE

A high-performing data centre demands more than just quality cables—it requires a complete, integrated infrastructure. Prysmian offers a comprehensive portfolio of accessories to support low, medium, and high voltage installations, including joints, terminations, separable connectors, cleats, and glands. Designed for reliability and compatibility, our solutions ensure seamless integration and long-term performance across your entire network.



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



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



ETCON MEDIUM VOLTAGE TERMINATIONS

- 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



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

ACCESSORIES



BICON CLEATS

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

EOSS ASSET MONITORING SOLUTIONS

As a global leader in energy and telecommunications solutions, Prysmian empowers data centres with cutting-edge infrastructure that ensures reliability, scalability, and sustainability. Our comprehensive offerings encompass advanced monitoring technologies, which provide real-time diagnostics to enhance operational efficiency, and high-performance multimedia solutions designed to meet the evolving demands of modern data centres.

Unlocking the Power of Data-Driven Efficiency

In power distribution, the reliability and safety of electrical systems are crucial. Data centres are especially vulnerable to disruptions from power outages or malfunctions, leading to significant risks and economic losses, estimated at \$150 billion annually in the U.S.

EOSS:

REVOLUTIONIZING POWER MANAGEMENT

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

Key Features

- ✓ **REAL-TIME DATA**
- ✓ **COMPREHENSIVE COVERAGE**
- ✓ **FLEXIBLE SOLUTIONS**
- ✓ **INTEGRATED MONITORING**
- ✓ **ADAPTABLE PLATFORM**
- ✓ **ADVANCED TECHNOLOGY & DATABASE**



Discover more

DATA TRANSMISSION SOLUTIONS

Introducing a trifecta of cutting-edge fiber optic solutions:

- **SIROCCO** Microcables offer a 20% size reduction for swift and economical installations
- **SIROCCO^{HD}** boasts higher fiber counts, minimizing civil works costs and environmental impact.
- **Flextube[®]** revolutionizes cable technology, offering easy fiber access and thermal stability, catering to diverse needs with options ranging from single fiber units to 864-fiber duct cables.

Experience the future of connectivity with Sirocco Extreme, featuring unparalleled diameter and fiber density, ensuring faster, more cost-effective installations and meeting stringent international standards.

-20%
Diameters

EXTREME
High fiber density

96 - 864
Fiber counts

BENDBRIGHT^{XS}
180 µm fiber technology

LOW CARBON
Footprint



DISCOVER OUR DATA CENTRE
ORDERING GUIDE

INTERCONNECTING DATA CENTRES WITH ULTRA-HIGH-DENSITY (UHD) SOLUTIONS

UHD FlexRibbon™ Fibre Cable

OVERVIEW

Data centre operators need **high density**. So, they must bundle as much fibre as possible into the smallest possible cable, to fit into their existing duct infrastructure.

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 large-scale data centres worldwide.



FlexRibbon™ is compatible with existing splicing technology (200-250 µm fibre splicing).

CURRENTLY AVAILABLE IN THE FOLLOWING FIBRE COUNTS

864

1,728

3,456

6,912

MassLink and FlexRibbon™ Technology Provide an Ultra-Compact Outside-Plant Cable Design.*

Legacy Solutions



200 µm Fibre optic

200 µm

200 µm Fibre optic

- Supporting bandwidth growth and efficient usage of space for AI applications
- BBXS 200 µm enables cable densification and miniaturisation.

Legacy solutions



1.25-inch duct

864f

FlexRibbon™



1728f

1728 250 µm Fibre

- A 21% smaller diameter (38% volume reduction) over traditional ribbon designs
- Contains 1,728 bend-insensitive fibres
- Small enough to fit into 31.75 mm/1.25-inch duct
- Ribbons can be rolled up and packed together in small diameter 288-fibre subunits.

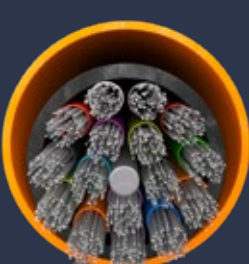
Legacy solutions



1.5-inch duct

1728f

FlexRibbon™



3456f

3456 200 µm Fibre

- Contains 3,456 bend-insensitive fibres
- Small enough to fit into 38.1 mm/1.5-inch duct
- Ribbons can be rolled up and packed together in small diameter 216-fibre subunits
- Enables high packing density while delivering advantages of mass fusion splicing.

FlexRibbon™



2-inch duct

6912f

6912 200 µm Fibre

- Contains 6,912 bend-insensitive fibres
- Small enough to fit into 50.8 mm/2-inch duct
- Ribbons can be rolled up and packed together in small diameter 288-fibre subunits
- Enables high packing density while delivering advantages of mass fusion splicing.

*Ultra-compact indoor and indoor-outdoor versions are available, contact us for more information

HIGH DENSITY CONNECTIVITY

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



OVERVIEW

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.

Prysmian's High-Density (HD) Fibre Panel has been developed in our advanced connectivity R&D centre, specifically for **high-density fibre installations** in hyperscale and carrier-based fibre networks. It's easily deployed in multiple applications: hyperscale cloud, multi-tenant data centres, central offices, edge data centres, CATV headend and enterprise.

In line with our commitment to innovation, Prysmian continues to strengthen its capabilities, including the integration of **Warren & Brown Technologies** into our portfolio, ensuring we meet the evolving demands of the data centre industry.



Key Features



- ✓ **LESS INSTALLATION TIME**
 - Tested with data centre installer partners and experts
 - can reduce operational error and installation time by almost 30%.*
- ✓ **ULTRA-HIGH-DENSITY**
 - Available in 1U, 2U, and 4U fibre footprints
 - 144 to 576 in relative port counts, primarily using standard LC connectors
 - Multi-fibre push on (MPO) and other speciality connectors are also available to raise the densities in line with the demands of specific fibre network operators in each market segment.
- ✓ **MODULAR AND FLEXIBLE**
 - The panel's cassette-based design enables flexibility and modularity
 - Managed fibre count can be raised to up to 432 fibres per unit using high-density MPO connectors and trunks.

MULTIMEDIA SOLUTIONS

Prysmian believes in the effective, efficient and sustainable supply of energy and information as a primary driver in the development of communities. With this in mind, we provide major global organisations in multiple industries with best-in-class products and services, based on state-of-the-art technology

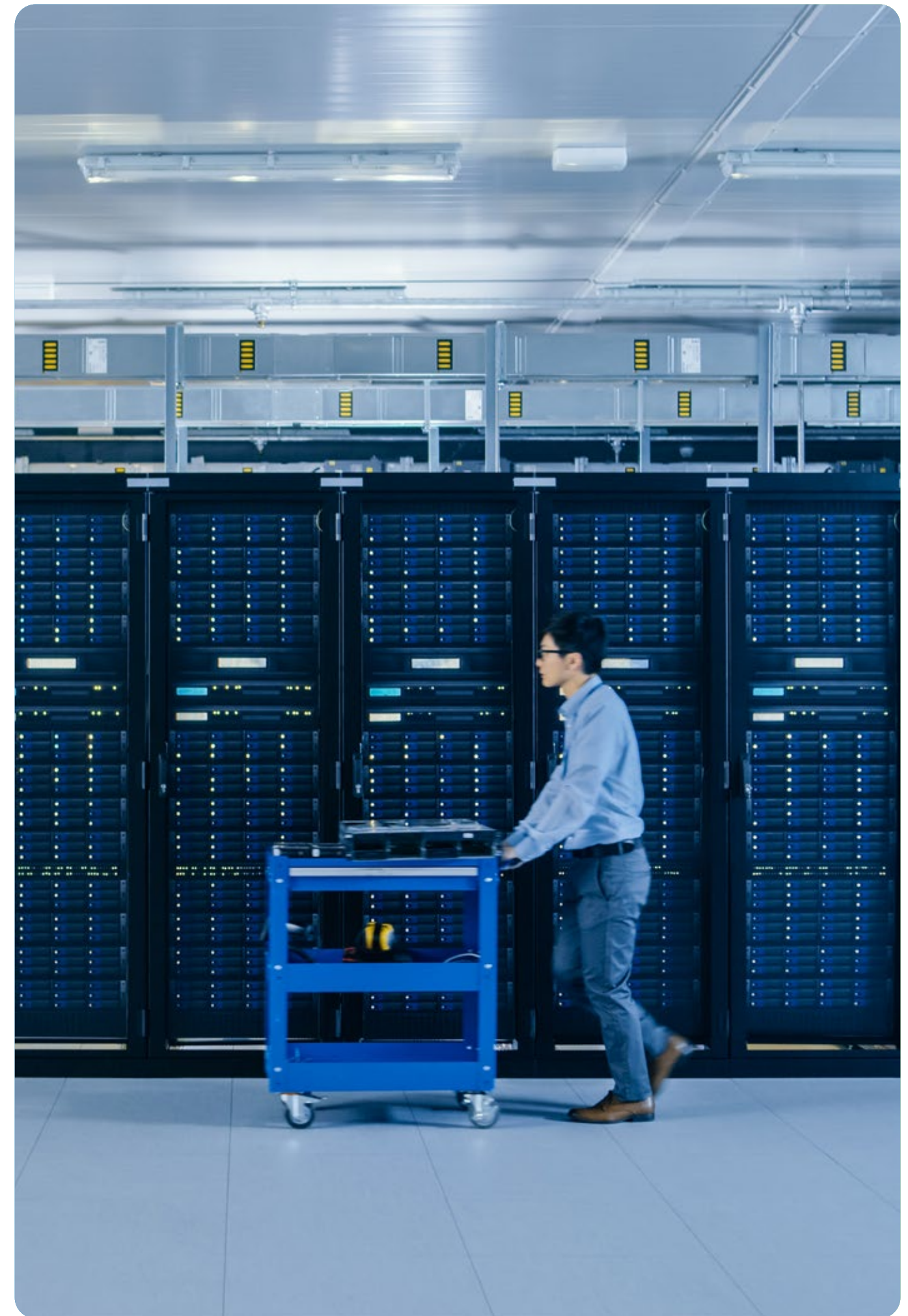


Welcome to our world of immersive connectivity where reliability is guaranteed, and flexibility is inherent in every solution. Experience seamless connectivity, expanded bandwidths, and adaptable solutions that evolve with your needs.

Explore our diverse range of products, including Copper and Fiber Cables for bustling offices, Optical and Copper Cables for studio essentials, Co-axial 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.



WHERE SUSTAINABILITY MEETS INNOVATION

At Prysmian, we believe digital progress shouldn't come at nature's expense. As data centers grow, our sustainable cable solutions help balance technology's promise with the planet's needs. Every meter we make reflects a commitment to a cleaner tomorrow—from greener materials to mindful manufacturing. Let's shape a future where innovation and sustainability move forward—together.



Sustainable Development Goals – Prysmian aligns its corporate framework with the 17 Sustainable Development Goals (SDGs) defined in the UN 2030 Agenda. The SDGs and their targets identify the global priorities and define an integrated plan of action for people, planet, prosperity and peace.



Science Based Goals – Prysmian's emissions reduction strategy aligns with the guidelines set forth by the Science Based Targets Initiative (SBTi) in accordance with climate objectives.



Responsible Mica Initiative – The first in cable sector business, in 2021 Prysmian Joined the Responsible Mica Initiative (RMI), a non-profit organisation dedicated to the elimination of child labour and precarious working conditions in the mica supply chain.



Prysmian is committed to reducing its own operating carbon emissions by integrating renewable energy into our manufacturing facilities. We've begun this journey at our Melaka plant, where rooftop solar panels now generate 1,500 MWh of clean energy annually—cutting emissions and lowering the carbon footprint of our products. This marks the first step in a broader regional initiative, with more facilities set to follow, driving measurable impact across Southeast Asia.

Our Sustainability Priorities

-  Enable accessible energy deployment and innovation.
-  Promote responsible resource use and sustainable supplies.
-  Support community and people development.

RESEARCH & DEVELOPMENT (R&D) CENTRES

- 5,600+ patents covering the main innovations
- 330 Product families launched
- 26 Research centres
- >1000 Professionals
- >50 Collaborations with research centres and universities



Prysmian’s 26 R&D centers worldwide are strategically located to stay attuned to local market needs, enabling the development of innovative, sustainable cabling solutions for data centers. Our commitment to a cleaner, safer future drives projects that enhance energy and information delivery while minimizing environmental impact. Collaborating with over 50 universities globally, we cultivate skilled professionals who propel our industry leadership.

Our robust R&D capabilities—comprising 26 Centers of Excellence, advanced technologies, a team of over 1,000

experts, and more than 5,600 patents—focus on pioneering advancements like deep-water wind farm power, ultra-deep-sea cable laying, and smart cables for proactive maintenance.

Initiatives such as the Corporate Hangar, co-founded in 2017, exemplify our open innovation approach, yielding successes like Alesea, Kablee, and Cultifutura, alongside Prysmian Electronics’ monitoring solutions that support sustainable data center infrastructure.

EXCELLENCE BEYOND COMPLIANCE

At Prysmian, quality is not just a benchmark—it’s a commitment embedded in every facet of our operations. Our Quality Management System (PQMS), aligned with ISO 9001 standards, ensures rigorous oversight from raw material selection to final product delivery .

We prioritize continuous improvement, setting challenging objectives and implementing effective corrective actions to uphold our “right first-time” approach. This dedication guarantees that our energy and telecom cables consistently meet the highest standards, delivering reliable performance in the most demanding environments.





PQMS
Prysmian Quality Management System



ISO 9001
Globally recognized standard for quality management

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