



# REDEFINING CRANE CABLE EXCELLENCE

The New Technology: XPRT, SMRT, SPCL, and XTRM



The planet's pathways

# WORLD-LEADING EXPERTISE IN CABLE INNOVATION

## Powering the World, Shaping the Future

Prysmian, the world leader in energy and telecoms cable solutions, delivers the widest range of products, services, technologies and know-how. For more than 150 years, Prysmian has been driving innovation – from the depths of the ocean to the heights of the sky.



## Our Commitment:



### **SUSTAINABLE SOLUTIONS**

We're dedicated to a greener future, developing eco-friendly cables that minimize environmental impact.



### **CUTTING-EDGE TECHNOLOGY**

Our 26 global R&D centres are constantly pushing the boundaries of innovation.



### **GLOBAL REACH:**

With a presence in over 50 countries, we deliver solutions to meet the diverse needs of our customers worldwide.



### **QUALITY ASSURANCE**

Our commitment to quality ensures reliable and high-performance products.



### **TAILORMADE PRODUCTS**

We offer customized solutions for the most diverse client requirements.



**PRYSMIAN –  
EXCELLENCE.  
INNOVATION.  
SUSTAINABILITY.**

# SIMPLIFYING CHOICES, BOOSTING BENEFITS

## Introducing the New Crane Cable Technology

Prysmian has launched a streamlined technology and branding concept for crane cables, making it easier for customers to find the ideal solution quickly and efficiently.

Our new structure organizes cables into four intuitive categories: **XPRT** (expert), **SMRT** (smart), **SPCL** (special), and **XTRM** (extreme), tailored for PROTOLON, CORDAFLEX, SPREADERFLEX, and RONDOFLEX cables. This simplified approach not only enhances decision-making but also accelerates processes and ensures faster product delivery.

### WHAT THE LABELS REPRESENT

#### XPRT

(Expert)

Premium solutions for extreme applications, offering maximum reliability.

#### SMRT

(Smart)

Balanced performance and cost-efficiency, ideal for versatile use.

#### SPCL

(Special)

Custom-engineered cables with unique features, such as multiple elements.

#### XTRM

(Extreme)

Durable, rugged designs, built for the harshest conditions.

### SUSTAINABILITY AT THE CORE

Prysmian's new technology and branding isn't just about simplifying choices; it also fosters sustainability:

- ✓ **Lower CO<sub>2</sub> Emissions:** Streamlined production processes minimize environmental impact.
- ✓ **Optimized Logistics:** Faster lead times and improved stock strategies boost delivery performance while reducing waste.
- ✓ **Advanced Compounds:** Proprietary technologies enhance cable durability and sustainability.

With Prysmian's new crane cable branding, you benefit from intuitive organization, improved processes, sustainable practices, and industry-leading service. Experience a new level of simplicity and reliability.



# NEW PRODUCT MAPPING

## 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 newly developed cables.



### +6 Months Warranty

Use our MV Assembly Service to extend the warranty by an additional 6 months.



### 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.*



Scan for more Information.

## EXISTING BRAND

## NEW BRAND

### MV REELING - Round Medium Voltage Reeling Cables

|                                   |               |
|-----------------------------------|---------------|
| PROTOLON(SMK)<br>PROTOLON(SMK+HS) | PROTOLON XPRT |
|-----------------------------------|---------------|

|   |               |
|---|---------------|
| PROTOLON(SMK)-200<br>TENAX family<br>PANZERFLEX | PROTOLON SMRT |
|---|---------------|

|   |               |
|---|---------------|
| PROTOLON(SMK) and (SMK+HS)<br>with special elements | PROTOLON SPCL |
|---|---------------|

### LV REELING - Low Voltage Reeling Cables

|                |                |
|----------------|----------------|
| CORDAFLEX(SMK) | CORDAFLEX XPRT |
|----------------|----------------|

|   |                |
|---|----------------|
| CORDAFLEX(SMK)-200<br>TROMMELFLEX KSM-S<br>PANZERFLEX | CORDAFLEX SMRT |
|---|----------------|

|   |                |
|---|----------------|
| CORDAFLEX(SMK)<br>with special elements | CORDAFLEX SPCL |
|---|----------------|

|                    |                    |
|--------------------|--------------------|
| TROMMELFLEX PUR HF | TROMMELFLEX PUR HF |
|--------------------|--------------------|

### SPREADER - Low Voltage Cables for Vertical Reeling

|  |                        |
|--|------------------------|
| CORDAFLEX(SMK)-V<br>CORDAFLEX(SMK)-V-S | SPREADERFLEX REEL XPRT |
|--|------------------------|

### SPREADER - Low Voltage Cables for Basket Operation

|              |                        |
|--------------|------------------------|
| SPREADERFLEX | SPREADERFLEX BSKT XPRT |
|--------------|------------------------|

### SPREADER - Low Voltage Cables for Mobile Harbour Cranes

|                   |                   |
|-------------------|-------------------|
| CORDAFLEX(SMK)-VS | SPREADERFLEX XTRM |
|-------------------|-------------------|

### FESTOON - Round Low Voltage Cables for Festoon Operation

|           |                |
|-----------|----------------|
| RONDOFLEX | RONDOFLEX XPRT |
|-----------|----------------|

|                 |                  |
|-----------------|------------------|
| RONDOFLEX(C)-FC | RONDOFLEX-C XPRT |
|-----------------|------------------|

|                    |                    |
|--------------------|--------------------|
| FESTOONFLEX PUR HF | FESTOONFLEX PUR HF |
|--------------------|--------------------|

|                      |                      |
|----------------------|----------------------|
| FESTOONFLEX C PUR HF | FESTOONFLEX C PUR HF |
|----------------------|----------------------|

|          |          |
|----------|----------|
| OPTOFLEX | OPTOFLEX |
|----------|----------|

### FESTOON - Flat Low Voltage Cables for Festoon Operation

|           |           |
|-----------|-----------|
| PLANOFLEX | PLANOFLEX |
|-----------|-----------|



## EUROPEAN EXCELLENCE

| DESIGNATION                    | TENSILE LOAD MAX.<br>STAT / DYN N/MM <sup>2</sup> | SPEED MAX.                                 | MECH. STRESS MAX. |
|--------------------------------|---|--|-------------------|
| (N)TSCGEWOEU                   | 20 / 30<br>+ support element                      | 300 m/min                                  | Extra High        |
| (N)TSCGEWOEU                   | 20 / 25   | 200 m/min                                  | High              |
| (N)TSCGEWOEU                   | 20 / 30<br>+ support element                      | 240 m/min                                  | Extra High        |
| (N)SHTOEU                      | 30 / 30   | 240 m/min                                  | Very High         |
| (N)SHTOEU                      | 20 / 25   | 200 m/min                                  | High              |
| (N)SHTOEU                      | 30 / 30<br>+ support element                      | 240 m/min                                  | Very High         |
| D12Y11YU11Y                    | 25 / 25   | 180 m/min                                  | High              |
| (N)SHTOEU                      | 20 / 30<br>+ support element                      | 240 m/min                                  | Very High         |
| 3GSLTOE / SYSLTOE /<br>2XSLTOE | Increased   | 160 m/min                                  | Very High         |
| (N)SHT11Y                      | 20 / 30<br>+ support element                      | 160 m/min                                  | Very High         |
| (N)GRDGOEU                     | 15 / 20   | 240 m/min                                  | High              |
| (N)GRDGCGOEU                   | 15 / 20   | 240 m/min                                  | High              |
| D12Y11Y                        | 15 / 20   | 210 m/min                                  | Moderate          |
| D12YC11Y                       | 15 / 20   | 210 m/min                                  | Moderate          |
| G62.5/125, G50/125, E9/125     | 500   | 120 m/min (Reeling)<br>240 m/min (Festoon) | Very High         |
| NGFLGOEU                       | 15 / 20   | 180 m/min                                  | Moderate          |

# GLOBAL REACH, LOCAL EXPERTISE

## Different Technologies for Different Challenges

No matter which country you are in, Prysmian Group offers local solutions and dedicated points of contact to support you.

### **SOLUTIONS DESIGNED TO MEET LOCAL NEEDS**

At Prysmian, we understand that every region comes with its own unique set of challenges. That's why we ensure our portfolio includes tailored solutions, produced locally or sourced from our global Centres of Excellence, to meet the specific demands of each market.

Our approach combines deep local expertise with cutting-edge technology, ensuring that every solution aligns with both regional requirements and global standards. Additionally, we prioritize rapid delivery to keep your operations running smoothly and efficiently, no matter where you are.

### **HARNESSING THE POWER OF INNOVATION**

From locally produced cables to advanced products developed in our global Centres of Excellence, we deliver the best solutions for every application. By leveraging our innovation hubs worldwide, we can address the most complex challenges with precision and reliability.

### **COMPREHENSIVE SUPPORT, WHEREVER YOU ARE**

Prysmian Group provides end-to-end support to ensure your projects succeed. With a presence in over 50 countries, our global reach and local expertise enable us to respond quickly and effectively to your needs.

We are more than a cable provider—we are your trusted partner for overcoming challenges and achieving success, any time and any place.

# CABLES. DELIVERED. NO MATTER WHAT.

## Navigating the New Landscape of Global Trade



The world of international trade is evolving rapidly. New policies, like the Built America Buy America Act, Chinese market regulations, or rising international trade tariffs, present challenges for businesses worldwide. Despite these changes, our customers can rest assured that they will continue to receive our high-quality cable products without disruption.

With our global presence and local production facilities, we are fully prepared to adapt to new market demands – no matter where you operate. Our worldwide manufacturing and logistics network ensures consistent supply with our high-quality products, always in compliance with regional regulations.

At Prysmian, we believe that new trade regulations shouldn't hinder your access to the world's best cable solutions. We're here to support you every step of the way.

# AT YOUR SERVICE!

## Because We Care About Cables – and About You

At our Centers of Excellence in Germany, Prysmian offers cutting-edge services for rubber-insulated flexible cables, customized to fit your specific requirements. Our expertise spans three key areas:



**Medium & High  
Voltage Cable  
Services**



**Medical & Low  
Voltage Cable  
Harnessing**



**Submersible Pump &  
Wind Turbine Cable  
Harnessing**

We provide solutions that are not only quick but also crafted with the utmost attention to detail.

### ASSEMBLY & TERMINATION – PERFECT FIT, EVERY TIME

At our Centers of Excellence in Germany or directly on-site, we prepare your special cables (1–66 kV AC) for a seamless connection. Our services are customized to fit your exact requirements, ensuring flawless execution every time:

- **PRECISION SEALING**  
Cast-resin, hybrid, and vulcanization types
- **SPECIAL SEALING ENDS**  
Tailored to your needs
- **PLUG-ON SEALING ENDS**  
Medium and low voltage, with fiber optics

### VLF-TESTING TECHNOLOGY – ENERGIZED AND SECURE

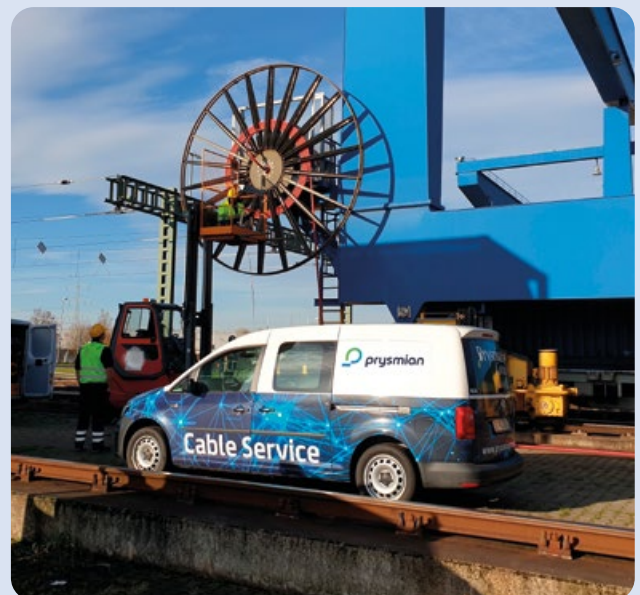
Our portable VLF-Testing System ensures your cable infrastructure is safe and reliable. Using a voltage waveform recommended by DIN VDE standards, we provide on-site testing that meets the highest safety benchmarks:

- **UP TO 60 kV VLF CR**
- **0.1 Hz TEST FREQUENCY**
- **MAX. TESTING LENGTHS:**  
240 mm<sup>2</sup> cables up to 5 km

### FIBER-OPTIC MEASUREMENTS – PRECISION YOU CAN TRUST

We offer a comprehensive suite of fiber-optic measuring methods to guarantee precision and accuracy:

- **VISUAL INSPECTIONS**  
Thorough assessment of every fiber
- **ATTENUATION MEASUREMENT**  
Across various wavelengths
- **FAULT LOCATION**  
Through OTDR reflectometry
- **ADVANCED MONITORING**  
Temperature and stress tracking with Brillouin frequency measurement





From the start, their expert advice on component selection and system design was invaluable. The entire project was seamless, thanks to their comprehensive approach.

We rely on Prysmian for regular VLF testing of our critical cable infrastructure. Their testing process is thorough and efficient, and we have complete confidence in the results.

## CUSTOMIZED SYSTEM CONCEPTS – BUILT RIGHT FROM THE START

From the initial planning phase, our team is ready to support you. We provide expert advice on component selection, assembly configurations, and termination methods. If needed, we can supply all necessary components and manage sub-projects to ensure everything aligns perfectly with your goals.



## FIBER-OPTIC PREASSEMBLY & CONNECTION – EXPERTISE IN ACTION

Our specialists develop and configure fiber-optic cable systems for industrial applications, offering:

- **HIGH MECHANICAL STRENGTH**
- **MOISTURE PROTECTION**
- **SLEEK, COMPACT DESIGN**
- **OPTIONS FOR FIBER NUMBERS:**  
6, 12, 18, or 24

We also connect fiber-optic cables and combined cables with integrated optical fibers, using the latest techniques like fusion splicing, ensuring reliable and precise connections.

## REPAIR & CONNECTION – FAST, RELIABLE, AND COST-EFFECTIVE

When your cables suffer damage, whether minor or major, we are here to help – quickly and affordably. We repair rubber-insulated flexible cables on-site or at our facilities, using original materials and proven technology. Our expert fitters ensure that your cables remain fully operational.

If you prefer to handle repairs yourself, we provide all necessary original materials in convenient installation sets, ensuring your cables are correctly connected using shrink-on, cast-resin, or vulcanization methods.



## Key Features



### **ADAPTABLE PLATFORM**

Compatible with various SCADA protocols, customizable to customer requirements.



### **COMPREHENSIVE COVERAGE**

Suitable for electrical equipment from 3 kV to 600 kV, including cables, transformers, and switchgear.



### **INTEGRATED MONITORING**

Continuous or temporary monitoring of key parameters like partial discharge, temperature, and humidity.



### **FLEXIBLE SOLUTIONS**

Configurable for specific maintenance and asset management strategies.



### **REAL-TIME DATA**

Monitoring conditions, malfunctions, and overheating without the need for specific expertise.



### **ADVANCED TECHNOLOGY AND DATABASE**

Harnessing IoT and a cloud-based system with over three million measurements for effective monitoring and continuous improvement.

# PRY-CAM ASSET MONITORING SYSTEM

## Unlocking the Power of Data-Driven Efficiency

In port infrastructure, the reliability and safety of electrical systems are crucial. Ports are especially vulnerable to disruptions from power outages or malfunctions, leading to significant risks and economic losses.

### **PRY-CAM: REVOLUTIONIZING POWER MANAGEMENT**

PRY-CAM 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 port infrastructure.



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**Sustainability Commitment**  
Learn more about sustainability at Prysmian.

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