

POWERED BY PRYSMIAN

ADVANCED CABLE TECHNOLOGY

11th Mediterranean Ports & Logistics 2024

Innovation defines us

To us, innovation means meeting the needs of our customers and communities by understanding their business drivers as quickly as they do.

Our ability to innovate is what makes us a market leader, with a track record of delivering products that are faster, smarter and more sustainable than before. In other words, products that are simply better to enable the **energy transition** and **power the digitalization** and **electrification** of our communities **in a sustainable way.**

OUR R&D CAPABILITIES AND RESOURCES

26

Research centres

covering the main innovations

About **5,600** patents

98

Product families launched during the year Over **50**

Collaborations with research centres and universities

OUR INNOVATION PILLARS

(P-Laser, ECOCABLE; etc.)

Electronics and Optical Sensing Solutions for Asset Monitoring (PRY-CAM, Omniens)

Digital Culture & Digital Products (Alesea, PRY-ID)

Innovation Accelerator & Start-ups (Corporate Hangar)

Design for Sustainability

GROUP SUSTAINABILITY



ALESEA P-Laser



Environment

Innovation

Social

Prysmian Group Design 4 Sustainability (D4S)

DRIVING CRITERIA

Carbon Footprint



Hazardous Substances Recycle Input
Rate

Transmission Efficiency

Environmental

Benefits

Kg CO_{2,eq} referred to cable weight cradle to gate approach (only materials and process contribution)

Weight of recyclable materials at EOL referred to cable weight (metals excluded) Substances of Very High Concern (SVHC) referred to total cable weight Weight of Recycled material used for the cable production referred to the cable weight (both for plastics and metals)

Part of Joule losses during the cable lifetime referred to the transmitted power Related to the cable final application (low carbon products enabling energy transition) and safety in use

INNOVATION WORKSTREAMS















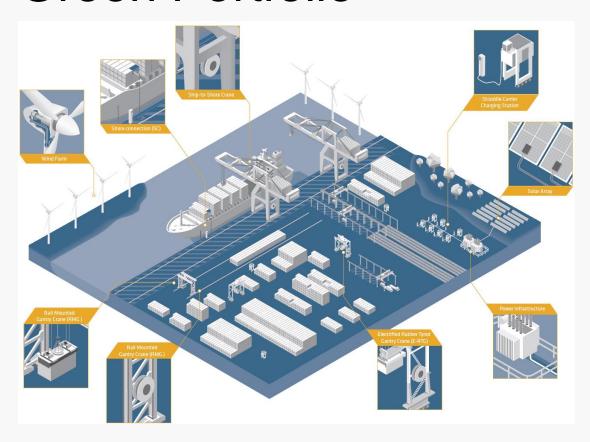


Bio





Green Portfolio



- Shore Connection &Alternative Marine Power
- MV and LV reeling cables for E-RTG
- Green-labeled Crane Cables
- > EV charging station
- > Renewable energy generation
- Eco-friendly power distribution & transmission



The Prysmian offer to your Port











Challenges of today

KPIs of port operators focused more than ever on productivity safety:

- Minimizing downtimes of crane operation
- Increasing throughput
- Ensuring faster and trouble-free container load/unload
- Achieving accident/fatality-free operation
- Reducing the number of people on site
- Increasing the level of automation
- Environmentally friendly port operation

What are the consequences for the main power supply cables?

- ✓ Faster Greater Broader and operating at specification limits means increased stress for the cable
- ✓ Shrinking tolerance to handle stress peaks caused by installation failures, incorrect machine set up or insufficient maintenance
- ✓ Lifetime shortage



Low Voltage Power Cable Family – The Real Deal



CORDAFLEX(SMK-200)





Made for reeling operations with **moderate** mechanical stresses

Flexible – Optimized – Easy – Robust -Reliable



Made for reeling operations with **high to highest** mechanical stresses

Super flexible – High Tension – Outstanding Performance







Made in

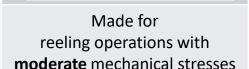
Germany

7980

MV Cable Family – The Real Deal



PROTOLON(SMK-200) Prysmian Group



PROTOLON(SMK)





Made for reeling operations with high to highest mechanical stresses

PROTOLON(SMK+HS)





Made for **High speed** reeling operations

PROTOLON(iQ)





Made for **Permanent Monitoring** of reeling operations

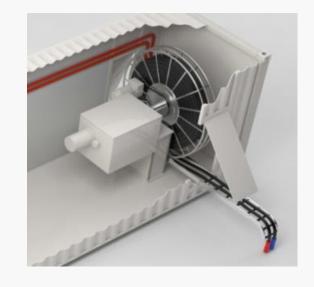
Evolution of technical demands



Environmentally friendly feeding of docking vessels

Our PROTOLON Shore Connection cables will keep the ships sustainably energised.

As you sit at the dock of the bay, watching the tide roll away, our PROTOLON SC cable will work hard to keep the vessels energised from the electrical grid while berthing. Instead of keeping the diesel engines running, the vessels get more sustainable energy while saving on fuel and reducing the carbon footprints. A win-win for everyone. Just lay back and breathe easily.







- ➤ According to IEC/IEEE 80005-1
- Systeme available also with factory-fitted plugs

After Sales Service

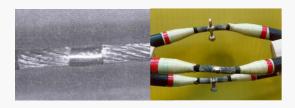


Crimp



Fixed installation sporadic movement

Cadweld



Simple application, connect different core sizes and core constructions

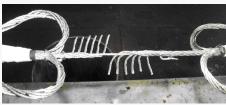
Splice



Permanent reeling with long lifetime expectations

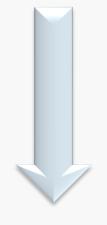


After Sales Service













Fibre Optics

Definition:

Cable repair for special cables means the reestablishment of the full cable features **without** any restrictions neither for the mechanical nor for the electrical performance whilst keeping the diameter of the cable.



Helping to meet today's big challenges

The energy transition
From fossil fuels to renewable
sources for low carbon future

The digitalization of our world Channelling and transporting an explosion of big data

The electrification of society Enabling the application of electrical power throughout the world Global and flexible supply chain

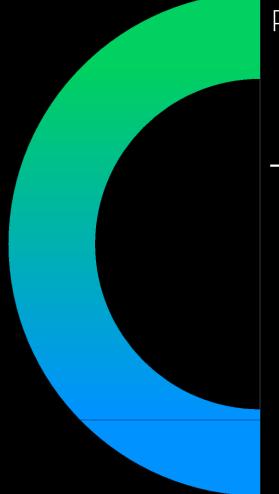
Extended product range

Sustainable product innovation

Global solution provider

Advanced proprietary technologies





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THANKYOU

