









Advanced Cable Technology

Prysmian Group Linking the Future

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



About **5,600** patents covering the main innovations



26
Research centres
900
Professionals



298
Product families launched during the year



Over **50**Collaborations with research centres and universities

OUR INNOVATION PILLARS

New products aligned with BUs' strategies (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





Environment

SCOPE 1 & 2 HET ZERO BY 1835.

SCOPE 3 NET-ZERO BY 2050

Innovation

Social

Prysmian Group Design 4 Sustainability (D4S)

DRIVING CRITERIA

Carbon Footprint

Kg CO_{2.eq} referred to

cable weight

cradle to gate approach

(only materials and process

contribution)

etprint Recyclability

Weight of recyclable materials at EOL referred to cable weight (metals excluded)

Potential

Hazardous Substances

Substances of Very High Concern (SVHC) referred to total cable weight

Recycle Input Rate

Weight of Recycled material used for the cable production referred to the cable weight (both for plastics and metals)

Transmission Efficiency

Part of Joule losses during the cable lifetime referred to the transmitted power

Environmental Benefits

Related to the cable final application (low carbon products enabling energy transition) and safety in use

INNOVATION WORKSTREAMS

P-LASER



Recycle r-PE



Recycle Cu/Al



Elimination SF₆

-02



Alesea





E3X®



Green Packaging



Bio Materials



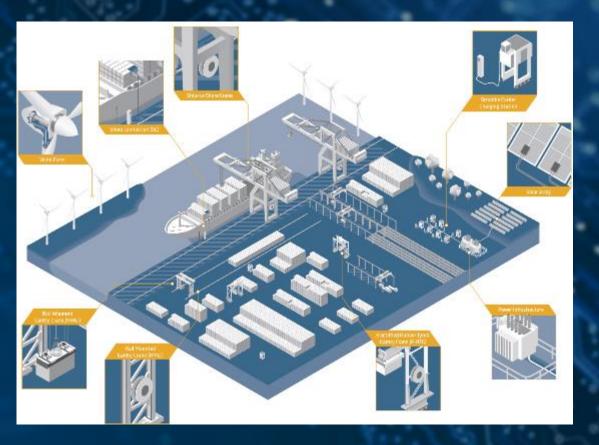
Sirocco® Microduct







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 YOU PORT OPERATIONS







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

What are the consequences for the main power supply cables?

- 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

- ✓ 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

CORDAFLEX Low Voltage Power Cable Family – The Real Deal



CORDAFLEX(SMK-200)



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

Flexible – Optimized – Easy – Robust - Reliable



CE ORIGINA



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

Super flexible – High Tension – Outstanding Performance





PROTOLON MV Cable Family – The Real Deal



PROTOLON(SMK-200)







Prysmian impo

PROTOLON(SMK)



mechanical stresses



PROTOLON(SMK+HS)









Made for
Permanent
Monitoring
of reeling operations

Evolution of technical demands

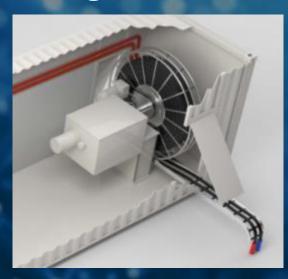
Environmentally friendly feeding of docking vessels

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 saying 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





Fixed installation sporadic movement

Cadweld



Simple application, connect different core sizes and core constructions

Splice



Permanent reeling with long lifetime expectations



Repair technique



Fibre Optics

Definition:

Energy

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 great 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

Thank you!

