

Let sunlight be your superpower

Cable Solutions for the Solar PV industry



CONNECTING THE WORLD. TODAY AND IN THE FUTURE

Prysmian Group is world leader in the energy and telecom cables and systems industry.

With 140 years' experience, the Group is strongly positioned in high-tech markets and offers the widest possible range of products, services, technologies and know-how.

140
YEARS OF
EXPERIENCE

25
R&D CENTRES
AROUND
THE WORLD



We specialise in underground and submarine cables and systems for power transmission and distribution, special cables for applications in many different industries, and medium and low voltage cables for the construction and infrastructure sectors.



For the telecommunications industry, the Group is the world's largest provider of cutting-edge cables and accessories for voice, video and data transmission, offering a comprehensive range of optical fibres, optical and copper cables and connectivity systems.



We are committed to environmental responsibility in our production processes, the protection of the global environment, and the responsible management of relations with the local communities in which we work.



For us, innovation means meeting the needs of our customers and communities by understanding their business drivers as quickly as they do. To do that, our team of over 900 Research & Development professionals is constantly looking to the future, predicting and identifying emerging trends in each of our industries and sectors. Acting on this intelligence from 25 R&D centres around the world, we're constantly close to our customers in their own local markets.

Solar Photovoltaic Cables

To meet an ever-growing need for power, the world is increasingly turning to renewable and sustainably sourced solar energy. Prysmian Group's cables are helping businesses in the renewable industry around the globe to convert this opportunity into reality. Our technologies – which cover cables used in photovoltaic plants – support the operations of contractors and developers, grid operators, transmission and distribution system operators and panel makers. Always aware of our responsibility to the planet, we are constantly driving innovation in our industry, aiming to help renewable industry partners deliver projects with benefits for the future of both our world and their businesses.

The choice of components is critical in any PV system. Good quality and properly sized cables provide optimized safety and longer-lasting systems.

Solar PV cables are often exposed to harsh environmental conditions: UV radiation, moisture, temperature fluctuations as well as wind, snow and rain. Inadequate or low-quality cables can deteriorate quickly, thus reducing a system's power generation capacity and, therefore, its revenues. Every KW lost in generation due to poor quality cables is a loss in terms of return on investment.

Cables are one of the first components of a system to show failures, causing power generation disruptions and implying high replacement costs related not only to the replacement of cables, but also, and mostly, to the works required and the possible collateral damages to panels or other components.

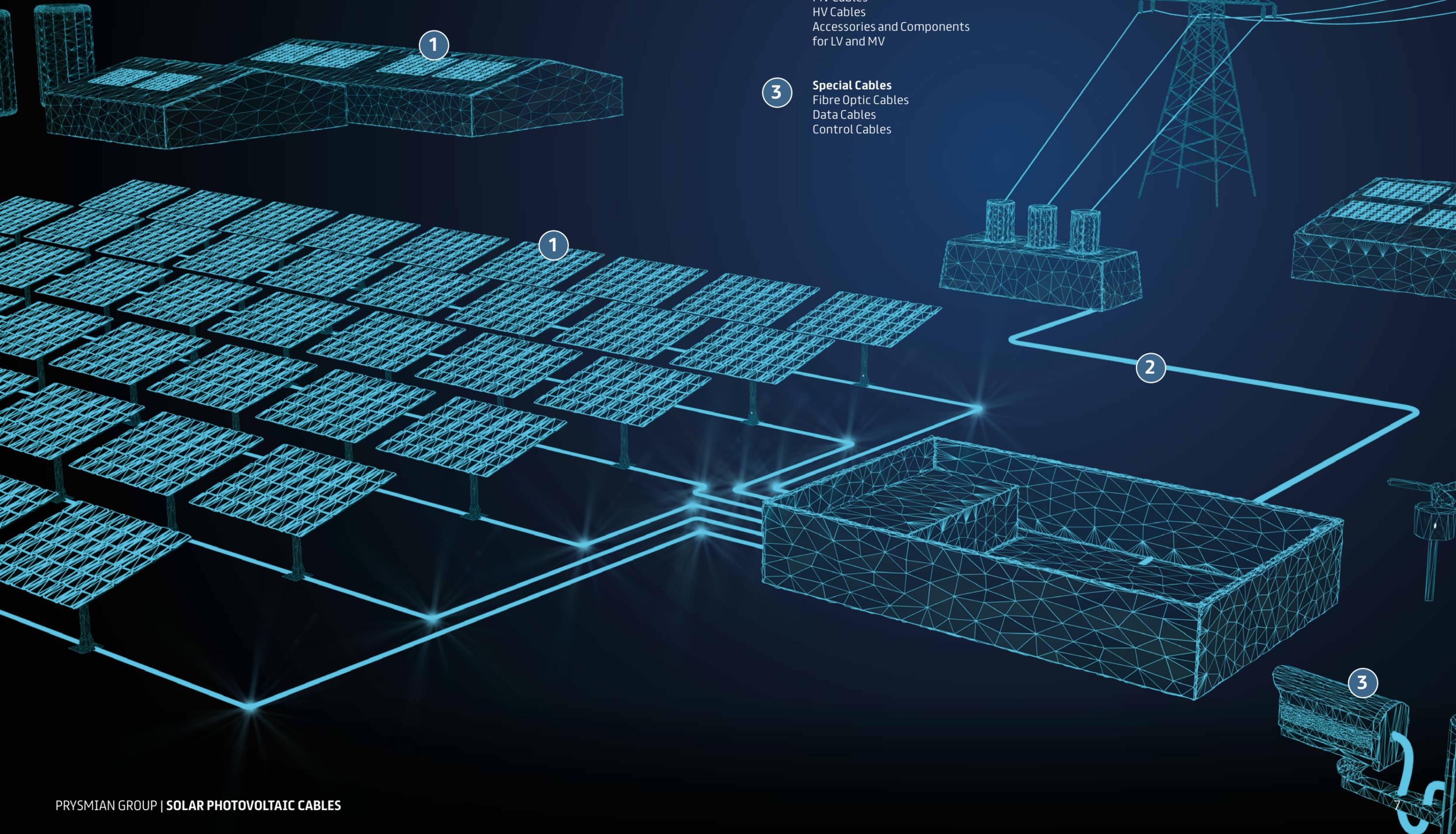
FULL PORTFOLIO FOR SOLAR APPLICATION

Prysmian Group offers complete cable solutions to enable the production and supply of solar photovoltaic power. In addition to Solar PV cables, Prysmian Group's product portfolio includes low, medium and high voltage cables according to the most known standards of each region, as well as special cables for communication and control. Prysmian Group offers also electrical asset monitoring solutions based on PRY-CAM, the revolutionary technology for on-line, accurate and reliable partial discharge measurement, diagnosis and defect localization.

GLOBAL GROUP, LOCAL FORCE

Prysmian Group is world leader in the energy and telecommunications cable systems industry. No matter how large, we are always present to serve both our global and our local customers and business partners. In order to offer bespoke and tailor-made solutions, we appreciate the importance of understanding local pre-conditions and special needs. This is why we believe that it is crucial to be present within local geographies, while being backed-up by the capacity that only a truly global group possesses.

Product Families at a glance



1

Solar PV Cables
TECSUN
PRYSUN
SUNGEN

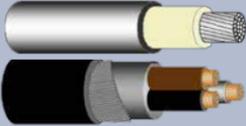
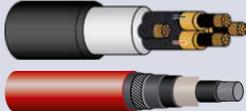
2

Energy Cables
LV Cables
MV Cables
HV Cables
Accessories and Components
for LV and MV

3

Special Cables
Fibre Optic Cables
Data Cables
Control Cables

Product Mapping

		Description	Standards
PV Cables TECSUN PRYSUN SUNGEN		PV Cables designed for the interconnection of various elements in photovoltaic systems, including panel interconnection, between panels and string boxes or from string boxes to the inverter. They are suitable for applications indoor and/or outdoor, resistant to UV and harsh environments.	Main standards of PV cables globally, including IEC 62930, EN 50618 and UL 4703
LV Cables		LV cables up to 3 kV, single core or multi conductors, aluminium or copper conductors, with different insulation and outer sheath compounds, armoured options and additional protection for harsh conditions as required	IEC standards and most local standards
MV Cables		MV cables from 6 to 50 kV, single core or three cores, aluminium or copper conductors, with different insulation and outer sheath compounds, screened, armoured options and additional protection for harsh conditions as required	IEC standards and most local standards
Special Cables		Wide portfolio of fibre optic cables, data cables and control cables to cover different needs	IEC standards and most local standards



Product & Brands

Prysmian Group's solar PV cable portfolio consists of a full range of quality solar photovoltaic products, renowned in the field for their easy installation, reliability and longevity attributes and complying with all major international standards.

TECSUN

The premium brand made in Germany with over 15 years of experience and more than 1,500,000 km sold worldwide, using proprietary compounds that rely on a long-standing track record of excellence that dates back to 2003. This cable outperforms the standards for PV cables (European standard EN 50618 and International standard IEC 62930) and it is designed to withstand extreme condition and a range of uses, including direct burial and floating PV.

PRYSUN

The most recently developed global brand. Designed for the interconnection of various elements in photovoltaic systems, including panel interconnection, between panels and string boxes, or from string boxes to the inverter, it is fully compliant with European standard EN 50618 and international standard IEC 62930, produced in different regions to be closer to our customers.

SUNGEN

The regional brand for markets like North America, based on local standards such as UL/CSA. Sunlight-resistant, direct burial photovoltaic wire rated 90 °C wet or dry, for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in the National Electrical Code.



Prysmian Group's range of solar and photovoltaic products are helping businesses around the world convert opportunities stemming from renewable energy sources into reality and answer the world's growing demand for **renewable** energy.

We have supplied components to worldwide developers, grid operators, PV panel makers, PV power generation system integrators and even entire solar parks worldwide.

Prysmian
Group

Linking
the Future

Prysmian
Draka
General Cable

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