

PRESS RELEASE

**PRYSMIAN CABLES AND WIRES FOR PV FLOATING SYSTEMS WORLDWIDE
ALSO USED IN BAYWA'S LARGEST FLOATING PV SYSTEM IN GRAFENWÖRTH, AUSTRIA**

Germany, 13. June 2023 - One of the most forward-looking forms of photovoltaic power generation is the use of water surfaces. Floating photovoltaic systems, also known as "floating PV" systems, are already widespread in many parts of the world and are now becoming increasingly common in Europe. Advantages include the cooling of the modules by the body of water, which enables higher electricity yields compared to ground-mounted systems on land, and cost savings, as no surface preparation or maintenance is required.

Operating conditions different from PV systems on land

Efficient, long-term system operation depends on the optimal interaction of the installed components under the specific operating conditions, which can be very different from those on land. This applies not only to the PV modules themselves, transformers and junction boxes, but also to the cable solutions. Here, the Prysmian Group, world leader in the energy and telecom cable systems industry, has a portfolio of high-performance, durable copper cables to meet these requirements. It includes solutions both for interconnecting the various components of the floating PV system and for transporting the electricity generated on the water to the grid connection on land. Prysmian's cable solutions are being used in one of Europe's largest floating solar installations at Grafenwörth in Lower Austria, with a capacity of 24.5 MWp.

Material stress due to UV radiation, ozone, and constant movement

The cable range is optimally adapted to the special operating conditions. Since the cables are laid openly on the floating platform, this includes resistance to UV radiation as well as high temperatures and ozone levels, especially during long periods of sunshine. A high degree of flexibility is also required, which is particularly important due to the mechanical stress caused by the constant movement of the installation on the water. An important prerequisite for this is the use of copper as the material for the current conductors. This allows the cables to compensate for the constant movement without overheating and becoming damaged in the long term. The sheaths also meet the high ecological requirements for water protection.

Complete portfolio for all types of connection

Prysmian's range of solar cables is centred around the "Tecsun" range, which is already used in many photovoltaic systems around the world. They are designed for free-moving, suspended or fixed installation in photovoltaic power generation systems with a rated voltage of up to 1.5 kV DC. They are the only solar cable system in the world to be certified according to DIN EN 50656-2 AD8, which means they can be permanently submerged in fresh water for their entire service life.

For the connection of the individual photovoltaic modules to the junction box via string lines, Prysmian also offers another tailor-made solution with its "Hydrofirm" cables. These copper cables, which are ideally suited for the loads in photovoltaic applications, have a drinking water-certified outer sheath. Among other things, they comply with the elastomer guidelines (ELL) of the German Federal Environment Agency (UBA) and the requirements of the Attestation de Conformité Sanitaire (ACS) in accordance with French law. The connection between the distributors and the transformers can be made with "Protolon M" cables, which are also suitable for high current flows with a high temperature resistance. A key challenge is to connect the floating PV system to the grid on land. Prysmian's "Protolon ST" offer particular advantages here: they are highly flexible, specially designed for use in water and can be used in water depths of up to 500 metres.

The globally experienced cable specialist thus offers a portfolio of suitable cable solutions that are optimally matched to larger floating photovoltaic systems and have already proven themselves in many applications. Prysmian will be presenting it at InterSolar Europe in Munich, Germany from 14 to 16 June (Hall A4, Stand 559).

Further information on "Tecsun" at <https://www.prysmiangroup.com/en/tecsun>,
on the entire range at https://de-catalogue.prysmiangroup.com/s/?language=en_GB

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Prysmian Group

Prysmian Group is world leader in the energy and telecom cable systems industry. With almost 150 years of experience, sales of around €16 billion, about 30,000 employees in over 50 countries and 108 plants, the Group is strongly positioned in high-tech markets and offers the widest possible range of products, services, technologies and know-how. It operates in the businesses of underground and submarine cables and systems for power transmission and distribution, of special cables for applications in many different industries and of medium and low voltage cables for the construction and infrastructure sectors. For the telecommunications industry, the Group manufactures cables and accessories for voice, video and data transmission, offering a comprehensive range of optical fibres, optical and copper cables and connectivity systems. Prysmian is a public company, listed on the Italian Stock Exchange in the FTSE MIB index.

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