

# At your service!

Give the signal and we'll fix all the details for your rubber-insulated cable solutions.



## At your service!

At our Centres of Excellence in Germany we have an established setup of services for ultra-modern rubber insulated flexible cable solutions divided into three different segments: Cable Service for Medium and High Voltage Cables; Harnessing of Medical and Low Voltage Cables and Submersible Pump Cables; Harnessing of Medium and High Voltage Wind Turbine Cables. Examples of areas are hoisting gear, mining, marine, industry and electro-medical equipment such as MRI and Computer Tomography. Being at the forefront of both the energy and telecom evolution, we can put together whatever you need, and have it delivered in no time. And you can always count on the highest form of craftsmanship, with attention to every detail. Basically, services that ring the bell!

### MV AND HV CABLE SERVICE FOR CRANES & MINING

#### ASSEMBLY AND TERMINATION – WE MAKE SURE THAT EVERYTHING FITS

At our Centres of Excellence, or on spot, we will make up your special cables (1–66 kV AC) ready for connection according to your requirements. We can also supply installation sets designed according to your requirements. To achieve the best end result we always work together with our clients, making sure the solutions are perfectly designed to any specific need:

- Sealing ends of cast-resin, hybrid and vulcanization type
- Special sealing ends
- Medium and low voltage plug-on sealing ends with FO

#### VLF-TESTING TECHNOLOGY – SAFE WHEN ENERGIZED

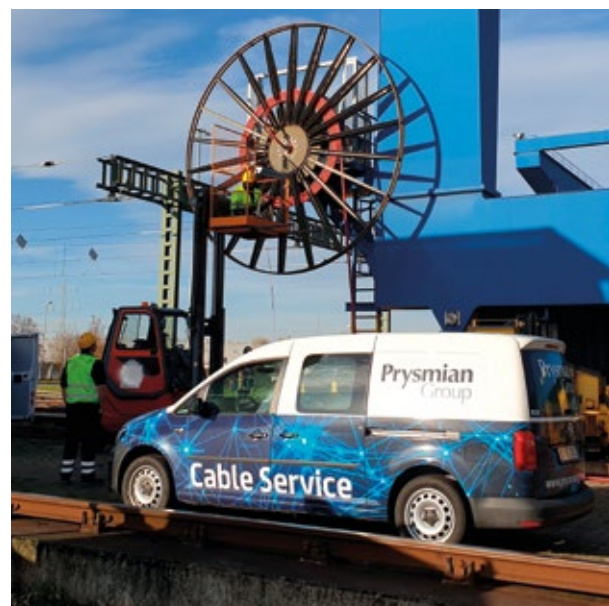
With our portable VLF-Testing System, a proven voltage waveform recommended by DIN VDE standards, we can offer safe and reliable on-site examination of your cable infrastructure:

- VLF CR up to 60 kV
- Test frequency 0.1 Hz
- Max. testing lengths at 240 mm<sup>2</sup> and Up = 60 kV<sub>eff</sub> about 5 km

#### FIBRE-OPTIC MEASUREMENTS – FOR HIGHER ACCURACY

We possess all the customary fibre-optic measuring methods to make absolutely certain that we can meet all requirements:

- Visual checks
- Attenuation measurement for various wavelengths by the insertion loss technique
- Attenuation measurement and fault location by reflectometry (OTDR)
- Temperature and stress recognition by Brillouin frequency measurement on single mode fibres throughout the entire run (monitoring / sensing)



## CUSTOMISED SYSTEM CONCEPTS – UP TO THE MARK RIGHT FROM THE START

Already at the planning stage, we are there to help you. We gladly advise you on selections and dimensions, on assembly configurations and termination methods. If you wish, we can supply you with all the necessary components and handle sub projects in conjunction with our products.

## FIBRE-OPTIC PREASSEMBLY AND CONNECTION – SKILLED IN EVERY METHOD

We have the skilled expertise to develop and configure fibre-optic cable systems for industrial applications, involving all types of plug connections:

- With high mechanical strength
- Protected against ingress of moisture
- Attractive design
- Compact dimensions
- With fibre number 6, 12, 18 or 24

We can also connect fibre-optic cables and combined cables with integrated optical fibres:

- With splicing box
- Using the fusion splicing method
- In repair work involving combined cables with integrated optical fibre

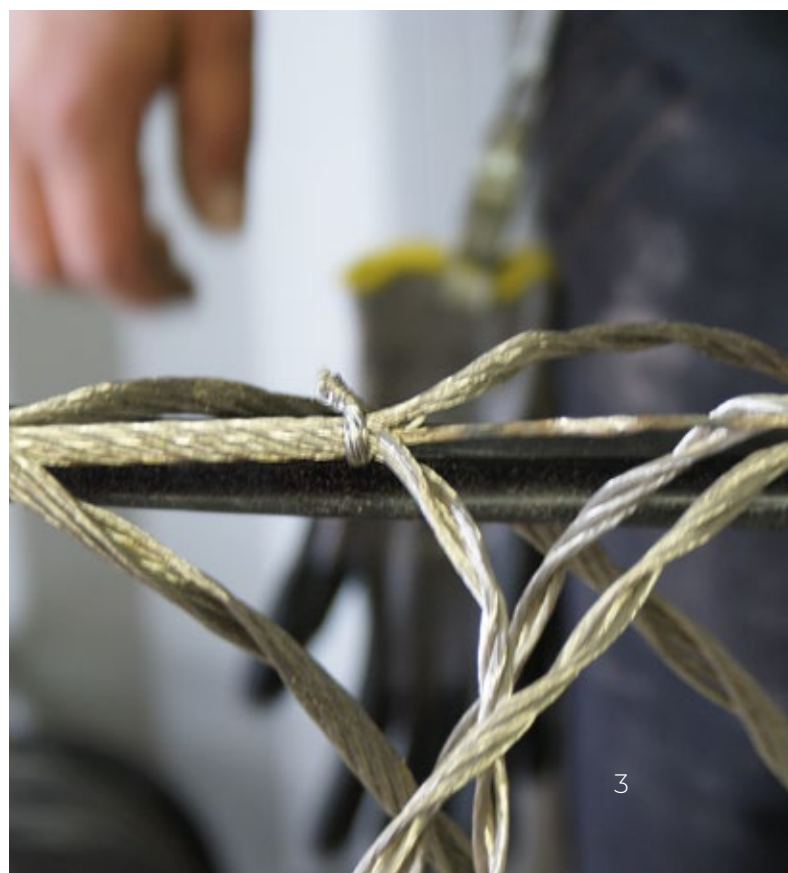
## REPAIR AND CONNECTION – ALWAYS THE RIGHT FORMULA

In the event of major or minor damage to special cables, we provide quick assistance – at a favourable price. We will repair your rubber-insulated flexible cables either on site or at our facilities. We use original materials and work with proven technology. Our qualified expert fitters ensure that the serviceability of our cables is not adversely affected. You can of course do the repair / connection yourself; we provide all necessary original materials in the form of installation sets.

We make sure that the connection is right between a number of special rubber-insulated cables, or between special cables and fixed-mounted cables. We always adhere to specified criteria to suit the application concerned, using shrink-on, cast-resin or vulcanization methods.



*"Always there when  
you need us."*





## HARNESSED CABLES – READY-TO-PLUG SOLUTIONS

By harnessing all the rubber-insulated cables you need for your onshore wind operations, the installation will be a lot easier – and faster. At our facilities or on spot we can make up all your cables and prepare them to be connected using a plug-and-play solution according to your specifications.

We can also supply installation sets designed specifically for your needs:

- Terminations of cast-resin, hybrid and vulcanization type
- Special terminations
- Medium voltage plug-on terminations
- Inner and outer cone connectors
- T plugs

We assure on-time delivery and, of course, the highest quality, including torsion secured cables down to  $-40^{\circ}\text{C}$  and with a service life of at least 25 years. We also perform individual PD-testing on each harnessed cable. Top-notch, all the way.

The harnessed cables can be packed in sets (3 cables) for one turbine:

- Stackable wooden box, sized according to customer specifications
- Optional seaworthy packaging including desiccant preservation and humidity indicator





## TAILORMADE CABLE SOLUTIONS

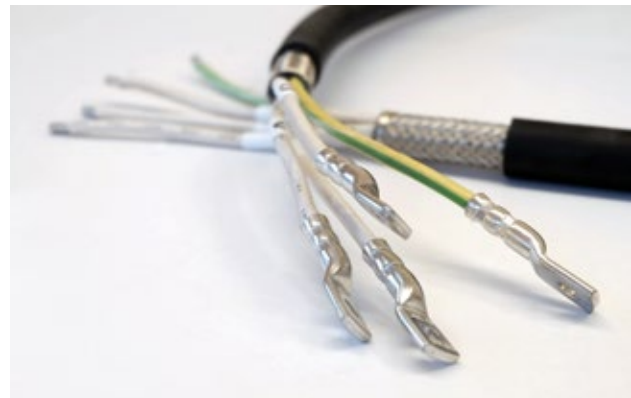
At the Accessories Facility at the Centre of Excellence in Neustadt near Coburg our experts specialise in cables and systems for healthcare diagnosis and therapy application as well as customised electrical applications including cable dismantling, harnessing and assembly. Established in 1990 our engineers have gained years of experience in developing complete cable solutions for the electro-medical industry, but also for wind, solar, and water businesses, among others. We are actually the only facility processing X-ray cables and X-ray systems within Prysmian.

## HAPPY CO-WORKERS EQUAL GREAT SERVICE

To make sure we can offer our customers the very best service we've invested a lot in our production area. Our safe and modern facilities create an atmosphere of well-being. The open work spaces simplifies collaboration and foster interaction. The organised working places enhance productivity and generate structure while the community area breaks down barriers and makes us come closer to each other. All in all qualities that make both us, and eventually our customers, happy.

Our harnessing service covers:

- up to 150 kV
- up to 1500 mm<sup>2</sup>
- from 1 – thousands of assemblies
- X-Ray connector testing
- molding / potting capabilities

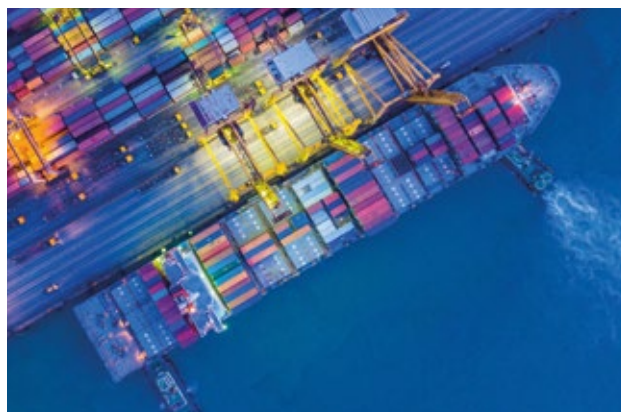


*At our Centre of Excellence in Neustadt near Coburg we offer everything from the actual cable to the additional components to create ready-made solutions: couples, extensions, plugs etc. Everything manufactured using the highest quality materials and designs.*

## GERMAN CENTRE OF COMPETENCES

Prysmian has a strong network of R&D Centres of Excellence in Germany (and Eastern Europe), the focus of each of them being linked to the cable solutions produced at each plant. Our portfolio embraces a large array of special cables, from energy cables and automotive charging cables, cable solutions to cables for wind power plants, airplanes and trains, as well as complex cables for crane systems, port terminals, mining and tunnelling.

Based on our long history and years of collected know-how, we are able to develop and manufacture all kinds of cables, from the simplest ones to the most challenging. All we need to know is your technical requirements.



*At our Centre of Excellence in Wuppertal we are experts in cables and systems for wind energy. We design and offer different types of services for various automotive cables. Moreover, we offer customised and special rubber cables as well as submersible cables for open sea transformer platforms and motor cables used for drinking, waste and hot water.*



## Made locally

We've been making cables in Germany since 1858. Today we have 2,000 skilled co-workers developing state-of-the-art cables in six plants all over the country. We can offer a complete range of cables covering everything from the deep blue sea, mines and tunnels to skyscrapers and satellites.

Two of our facilities are Centres of Excellence including R&D departments in which we develop new solutions to meet your specific needs as well as the common challenges of tomorrow.

When that is not enough, we have the largest cable manufacturer in the world to our disposal, Prysmian. That includes 50 countries, 112 plants, 25 R&D centres and about 30,000 skilled professionals doing nothing but developing and producing cable solutions that will solve your current and future needs.



## PRYSMIAN

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