

## **FABER KABEL - A Powerfull Partner**

The exploitation of so-called renewable energy resources is not the product of modern inventiveness. Well before governments came upon the idea of offering subsidisation schemes to industry, wind, sun and water were used as natural sources of energy. Even coal and oil were and are still being created as the result of a natural process. The only problem now is that the rate of their consumption far exceeds the speed of their formation.

Man has overtaken nature.

The task we are now faced with is to redress this imbalance with the aid of the technologies that we have available. Without waxing philosophical over the question of whether or not wind power is renewable, it is true that – as are solar and water power – it is readily available, and with no sense of restriction, certainly for the time being. Our task now is to harness this potential without adding to the damage being inflicted on our home planet.

What characterises FABER KABEL as an important supplier for manufacturers of wind power generators and other sources of renewable energy is its comprehensive product range as well as its perfect customer service.



*A comprehensive range of products and perfect service make FABER KABEL stand out as an important supplier company to the manufacturers of wind power stations and other renewable energy sources.*

As a leading provider of logistics services for cable and feed products, FABER KABEL has over the last ten years proven to be one of the most highly competent and best performing partners in the energy-generating industry. By displaying constant flexibility in the way that it maintains its product range, combined with an ideal cut-length service, FABER KABEL covers not only the entire spectrum of energy supply cables but also a large section of the required control and signal cables. FABER KABEL is meanwhile visible providing its services at many building sites throughout Europe, as a result of which we have numerous references of our successful activities both at home and abroad.



### **Products**

#### **Medium voltage cables**

Medium-high voltage cables N..2XS..Y are the link between wind power station and public or private power supply systems.

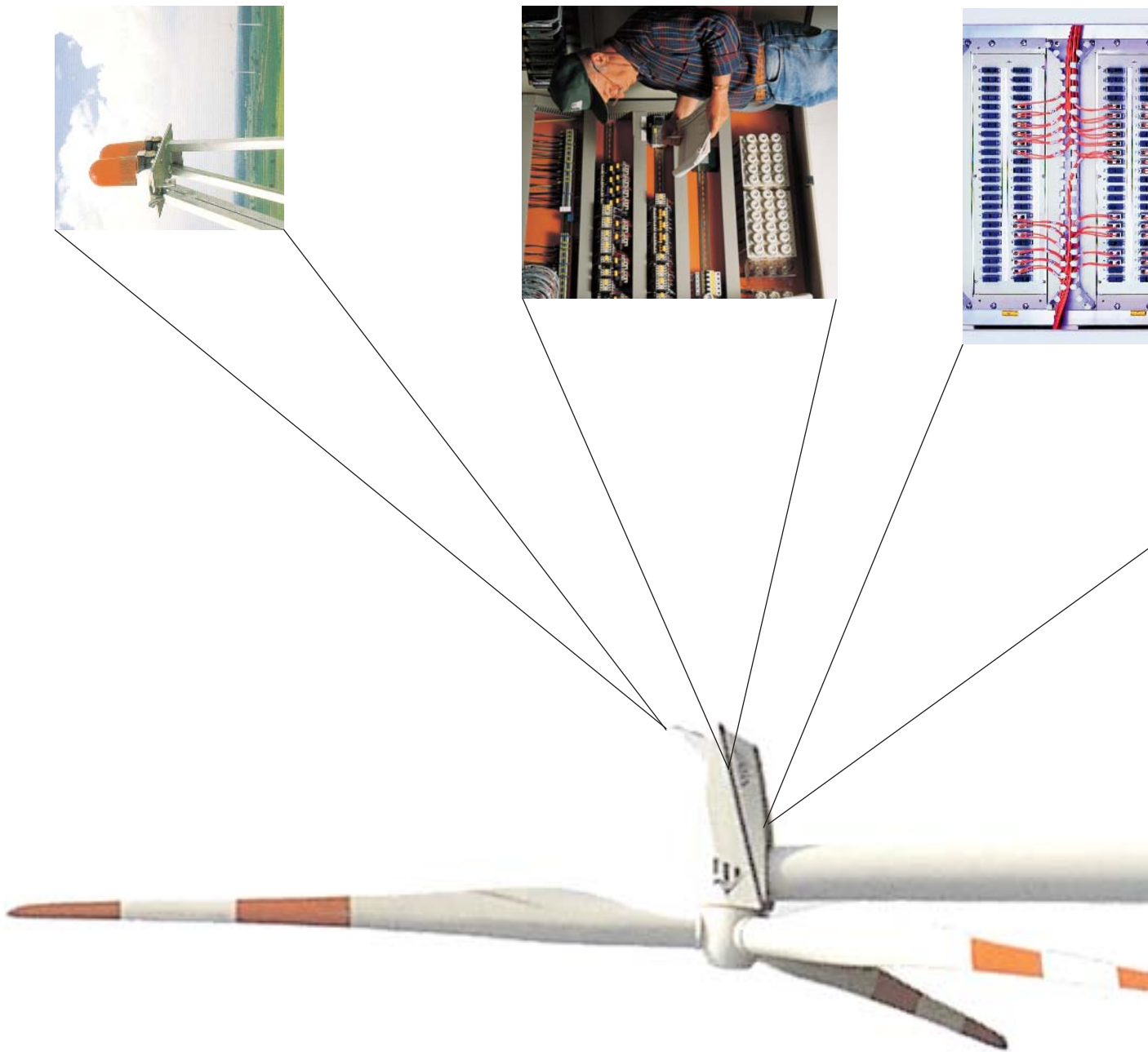


In this product range alone, FABER KABEL has more than 300 different articles in stock, copper and aluminium conductors up to a cross-section of 630 mm<sup>2</sup> and a rated voltage of 30 kV. Almost all applications can be covered with this extensive range..

#### **Low-voltage cables**

of the types N..Y..Y are used for internal wiring of the wind power station and as tower output cables. In this sector, FABER KABEL has an extraordinarily wide range of cross-sections and wire configurations available to match every requirement.

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Special cables e.g. for flight navigation lights, connection of sensors etc.



H07BQ-F 450/750 V



LiVCY

Rubber cables, speially designed for use as loop-cable



H07BN4-F 450/750 V

Installation and low-voltage cables, control cables for internal wiring and control functions

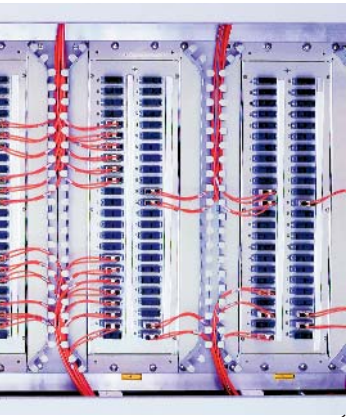


H07V-K 450/750 V

Communication cables on a copper and optical fibre cables basis for MSR technology



FACAB dataline LWL



Rubber or PVC-cables for diverting the power produced from the rotor head into the base



**H07RN-F 450/750 V**



**NYYY-O 0,6/1 kV**



Low and medium-voltage cables for concentration and introduction into the network



**N2XS2Y 10/20 kV**

**Control cables**

Flexible PVC control lines of the type Y-JZ or CY-JZ are used for numerous monitoring and control applications within the station. They are available from stock with between 2 and 61 cores in the cross-sections 0.5-2.5 mm<sup>2</sup>.



**Flexible Power Cables**

One of the most commonly used cables employed for feed-in purposes is the **Ho7RN-F**. These types are used for carrying the power generated by the wind turbine from the turret to the tower (loop cable) or even as far as the distribution and switching systems at the foot of the system. FABER KABEL offers high-quality cables which operate within a permitted temperature range of up

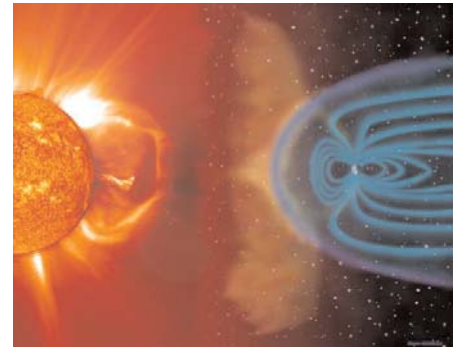
**Cable service from FABER - a class of its own**

FABER-KABEL service has now become known as one of the most perfect of its kind in Europe. Cut lengths and original goods, ready for dispatch within 24 hours and delivered to most European sites within 48 hours - that is quite unparalleled.

Many of our customers have reduced their own stocks significantly and rely 100 % on FABER logistics. And it's not only fitters and builders of wind power stations who benefit.

to 90°C, putting them well beyond the figure required by VDE standards. They are available in cross-sections of up to 300 sqmm. For high-power systems in which the magnitude of the current transported necessitates large cable bundles, we recommend **ECOPOWER (Ho7ZZ-F)** or **ECOPOWER plus (Ho7BN4-F)** cables; these are optimised for use under such extreme conditions, and have an extended lower operating temperature limit of -40 or -50°C. For use with higher generator voltages, the **H6oZZ-F** cable has recently become available, with a nominal voltage of 3.6/6 kV.

PVC wires, such as **Ho5V-K** or **Ho7V-K** are commonly employed in switching panels, as are short-circuit-proof special rubber **NSGAFÖu** cable. Our stock covers all standard colours and cross-sections up to 240 sqmm.



**Solar Cables**

In recent years, an enormous demand has arisen for so-called solar cables. They are employed for the interconnection of solar panels, and are designed for use under extreme conditions in terms of:

- Temperature
- UV radiation
- Ozone effects

Moreover, they are required to function over a service life of at least twenty years. To serve these requirements, the industry has developed a wide range of cables, beginning with relatively simple rubber cables, such as the **Ho7RN-F** and extending to cables with electron beam cross-linked insulation and mantle materials. The **FACAB SOLAR** series is a range in which FABER customers will find that virtually the entire spectrum of requirements has been met.

For further information on the products presented here, we recommend that you consult the 8-page brochure entitled **“Cables and wires for Renewable Power Generation”**.

(Also available to download from the Internet)

**IMPRESSUM**

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