

Submarine Power Cables



Submarine Power Cables at NSW Today

Experience, Innovation and Service

Norddeutsche Seekabelwerke GmbH (NSW) has been manufacturing underwater cables since 1899. A century of experience in armored and non-armored cables for carrying power, signals, communications and fiber-optic applications has formed the foundation for a forward-looking organization committed to innovation and unrivalled customer service.

Worldwide Partnership

As a 100-percent member of the General Cable Group (NYSE: BGC) – which is a global leader in the development, design, manufacture, marketing and distribution of copper, aluminum and fiber-optic wire and cable products for the energy, industrial and communications markets – NSW benefits not only from General Cable's profound expertise but also from its global reach in the wire and cable industry.



Applications

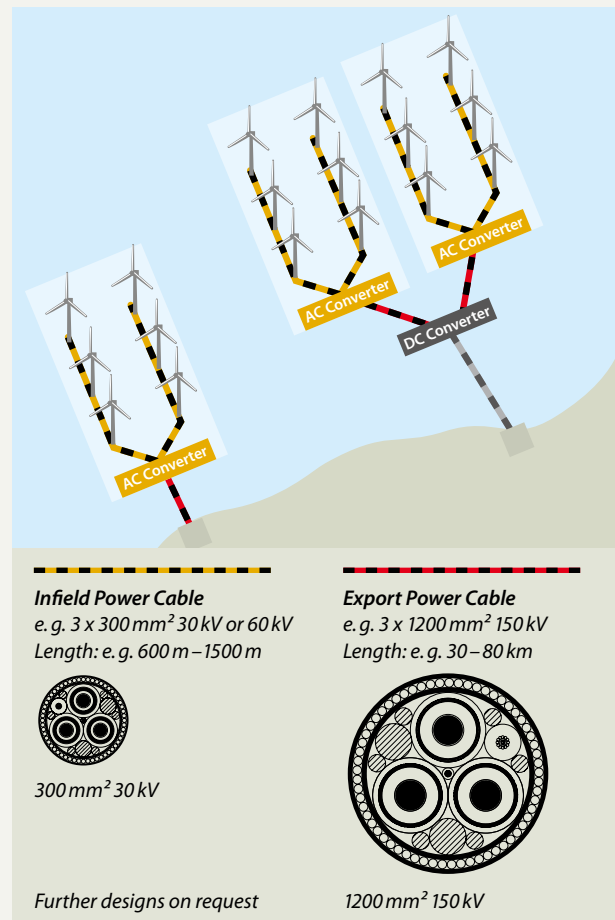
Typical applications for our medium-voltage and high-voltage submarine power cables are:

- › **Renewable energies**
 - Offshore windfarms
 - Tidal power
 - Wave-energy converter farms
- › **Offshore oil and gas industry**
- › **Island connections and lake crossings, also for longer distances**

Submarine Power Cables for Renewable Energies

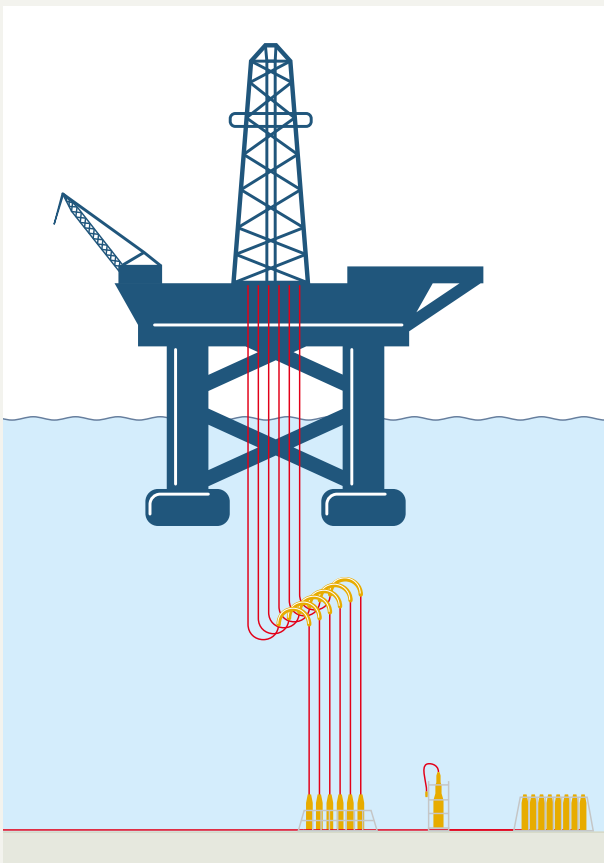
Power generation and distribution is becoming an increasingly critical question. Alternatives to fossil fuels are a necessity to avoid disadvantages of CO₂ output. Windfarms, tidal power plants and wave-energy converter farms (WEC) are possible answers to this question which we support proactively with innovative cable concepts.

NSW Submarine Power Cables in a Typical Offshore Windfarm



Submarine Power Cables for the Offshore Oil and Gas Industry

The challenges and potential of the offshore industry continue to grow apace. At the same time, our customers have very special requirements. As a consequence, tailor-made solutions are needed in most cases. As the recognized experts in submarine power cables for the offshore oil and gas industry, NSW can offer these solutions by meeting the stringent industrial requirements. Developed on a case-by-case basis, our cables are reliable and cost-effective even under extreme conditions.



Offshore Installation of Submarine Power Cables

In the field of power supply, NSW offers the full turnkey service. In addition to NSW's outstanding cable know-how, this comprises:

- › **Offshore engineering and project management**
- › **Desktop study**
- › **Marine survey**
- › **Cable laying and protection**
- › **Cable accessories**
- › **Testing and commissioning**
- › **As-built documentation**



Quality Assurance and Environmental Protection

Quality and quality assurance have always been and will continue to be key elements of NSW's activities. NSW established, documented, introduced and maintains a quality management system according to the standards ISO 9001:2000 and ISO 14001:2004 which has been certified and is reviewed regularly for effectiveness by LRQA auditors.

Germany

Norddeutsche Seekabelwerke GmbH
Kabelstraße 9–11
26954 Nordenham
Phone: +49 4731 82 0
Fax: +49 4731 82 22 62
power@nsw.com

Great Britain

NSW Technology Limited
Unit G8, Exploration House
Exploration Drive, Bridge of Don
Aberdeen AB23 8GX
Phone: +44 1224 339880
Fax: +44 1224 339889
sales@nswcable.co.uk

Spain

General Cable Spain
Casanova 150
08036 Barcelona
Phone: +34 93 227 9700
Fax: +34 93 227 9722
info@generalcable.es

Norway

General Cable Nordic AS
Randemveien 17
PO Box 113, 1541 Vestby
Phone: +47 64 95 59 00
Fax: +47 64 95 59 10
firmapost@generalcable.no

United States

General Cable Corporate Headquarters
4 Tesseneer Drive
Highland Heights, KY 41076
Phone: +1 859 572 8000
Fax: +1 859 572 8458
info@generalcable.com

Australia

General Cable Australia Pty Ltd.
Sales & Customer Service
Suite 2, Level 1, 3–5 Railway
St. Baulkham Hills NSW 2153
Phone: +61 1300 363 282
Fax: +61 1300 363 382
sales@generalcable.com.au

Canada

General Cable Company
590 Barmac Drive
North York, Ontario M9L 2X8
Phone: +1 416 79 12 430
Fax: +1 416 756 17 13
infoca@generalcable.com

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Norddeutsche Seekabelwerke GmbH

Kabelstraße 9–11, 26954 Nordenham, Germany
Phone: +49 4731 82 0, Fax: +49 4731 82 22 62, Email: power@nsw.com

www.nsw.com