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Umbilicals and Subsea Power Cables

Excellence in Connecting Subsea



ENGINEERING YOUR SUCCESS.

Subsea Power Cables

Power cables are custom built and contain electrical conductors, fiber optic and electrical signal cables.



Subsea power cable is used for transmission of electric power between offshore installations and for the supply of electric power to subsea processing, subsea pumps or other subsea facilities.

The voltage rating and conductor cross - section is optimized in accordance with the functional requirements.

Power cables can be manufactured both as dynamic and/or static cables.

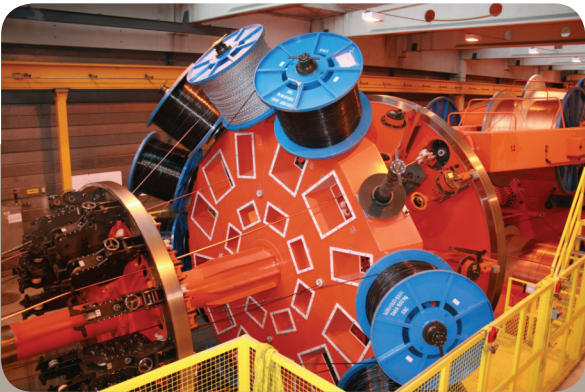
Construction

- Medium Voltage - High Voltage power conductors
- Fibers in Metallic Tubes (FIMT)

Applications/Markets*



- Oil and gas industry
- Renewable industry such as offshore wind power, tidal and wave applications.



Transportation, Installation & Storage

Parker EPD offers flexible solutions to facilitate and optimize the logistics.



Control and Power Umbilicals

Control umbilicals consist of hydraulic lines used for the transfer of chemicals and fluids. Electric and fiber optic components can be added to monitor pressure, temperature, flow and vibration.



Parker EPD's experience comprises a wide range of umbilical types from simple static umbilicals to complex dynamic umbilicals.

Control umbilicals are used for control and operation of subsea production, subsea processing, and subsea injection facilities.

The hydraulic line material is dependent on the functional requirement. Both thermoplastic hose and steel tubes are in

our product range. As with the hydraulic lines, the communication and power components can be adapted to suit the specified requirements.



Construction

- Super Duplex (316,190) steel tubes - Thermoplastic hose
- Medium Voltage - High Voltage power conductors
- Low voltage signal cables
- Fibers in Metallic Tubes (FIMT)
- Cover: Extruded silicone

Applications/Markets*



- Oil and gas industry

Terminations – Accessories

Parker Energy Products Division has developed a family of field proven accessories to meet customer demands.

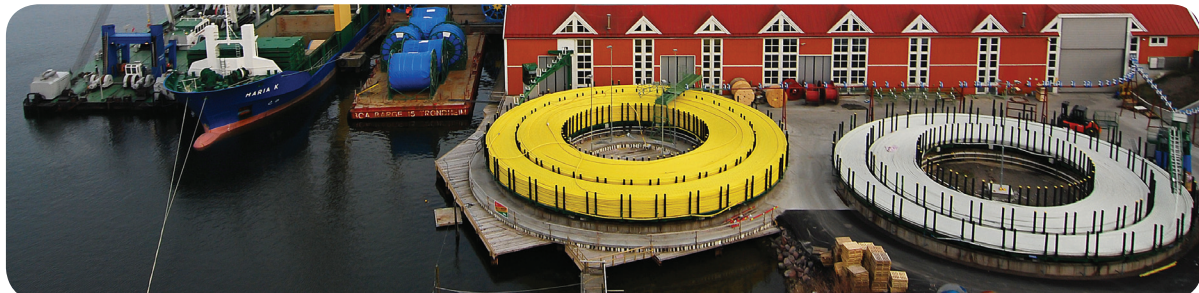
Customization guidance and assistance.

Subsea/topside terminations are an integral part of the supply of umbilicals and power cables. The Engineering and Research & Development staff have the experience and technical qualifications to supply customers with the necessary information for choosing the best umbilical and accessory

designs, customized to meet the specified requirements.

Typical termination components:

- Hang-Off Arrangements
- Bullnose/Pull-in Head
- Subsea Distribution Unit
- SUTU



Services

Parker Energy Products Division provides a range of supportive services to its customers.

The service department offers both manpower and test equipment on and offshore.

Maintenance, testing, and after sale services of umbilicals, subsea cables and terminations are also provided. Furthermore, supervision during installation and assistance is available.

The following services can be provided:

- Installation and test services
- Supervision during installation
- Maintenance
- Dynamic Analysis



Study and Analysis

Parker Energy Products Division offers front-end engineering and design studies.

Let Parker EPD partner with you to be an extension of your engineering department.

In order to provide you with sufficient details to evaluate your next development, Parker EPD offers front-end engineering and design studies.

Examples of what can be provided:

- Feasibility Studies
- FEED studies
- Dynamic analysis

Parker Energy Products Division

manufactures the most modern cabled products available for offshore oil & gas applications

Extensive experience and know-how in the design and production of umbilicals, subsea power cables, and associated termination equipment makes Parker Energy Products Division (EPD) a first-class supplier of specifically engineered subsea solutions.

Our engineers work closely with the offshore wind turbine industry to develop solutions for all the phases of your project. Parker EPD's quality management system is certified

by DNV to ISO9001:2008. The in-house quality assurance system details the control and coordination of all activities to ensure product quality.

Further, with a unique deepwater quay facility and 250-ton dock-side crane, Parker EPD is equipped to handle large vessels and load-out operations.

The layout of the factory allows flexibility in

the production route of a project, facilitating the possibility to run multiple projects at the same time. Therefore, with its highly qualified staff, Parker EPD will provide the products and services for all your subsea umbilical and cable needs.



STATE OF THE ART MACHINERY

provides a highly flexible production capacity, which means the ability to produce complex and demanding products, efficiently and effectively.

Parker Energy Products Division

Engineered Solutions for the Oil & Gas Industry

Parker EPD (Energy Products Division) is a provider of innovative, engineered solutions for the global energy industry. We offer specialized products, technologies, and services to upstream, midstream, and downstream operations, as well as to offshore wind energy projects and high pressure water markets. At Parker EPD, we are committed to supporting every client with the best solutions to answer the challenges of the energy industry. Our value-added products and solutions include:

- Engineered systems solutions for your project
- Experienced project management teams
- Certified quality management programs
- Product engineering for research and development along with project support
- Experienced provider of subsea services
- On-time deliveries

For personalized quotes on cables and umbilicals, please email us at contact.epd@parker.com.

