



UMBILICAL SYSTEMS

ORIENTCABLE

Who we are

ORIENT CABLE is a professional provider in design, manufacturing, installation and service of land cables and subsea cables. Orient Cable products are used by leading global energy companies and subsea service providers in the world, harsh onshore and offshore environments. The most Competitive product of ORIENT CABLE is subsea cable

Include

AC subsea power cables(AC SPC)

DC subsea power cables(DC SPC)

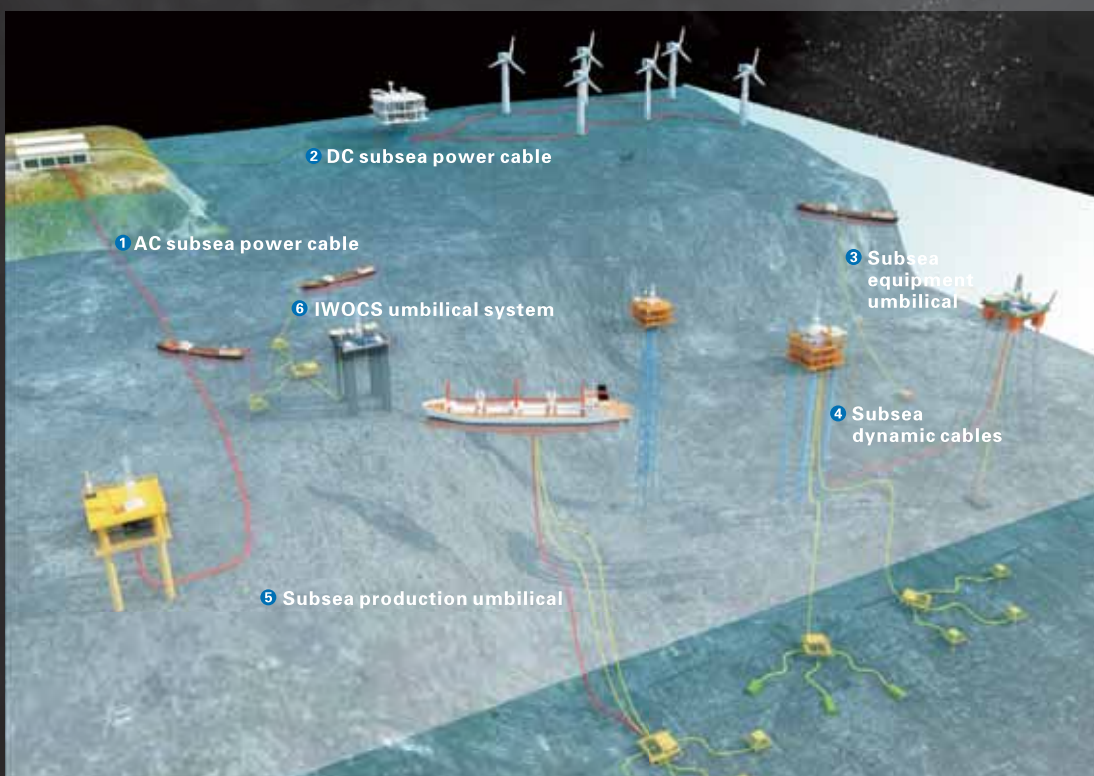
Subsea Equipment Umbilical(SEU)

Subsea dynamic cables(SDC)

Subsea production umbilicals(SPU)

Intervention workover control systems(IWOCS)

Aftermarket, Installation And Maintenance Service (AIMS)





ORIENT HAS

Over 500 employees worldwide, 70 of which are engineers

One modern manufacturing facility for SUBSEA CABLES

One modern manufacturing facility for POWER CABLES

One modern manufacturing facility for WIRES & CABLES

One head administrative center

One market development & research development office

One customer management office in Houston, USA

AC subsea power cables(AC SPC)

- 35 kV and below Submarine Optical Composite Power Cable
- 110kV Submarine Power Cable Composite with FO
- 220kV Submarine Power Cable Composite with FO
- 500kV Submarine Power Cable Composite with FO

Application

The product is mainly used in submarine for providing the freely link between island and island, mainland and island, island and offshore platform, wind power and mainland or island.



DC subsea power cables(DC SPC)

Product Description

DC voltage source based converter (VSC) high-voltage direct current transmission has been developed a new type of HVDC technology in recent years. The system included the DC Submarine cable, converter transformers and related accessories.

Application

It mainly used in Power transmission, AC power network interconnection and control, different network interconnection and control, different networks, such as Island power grid, offshore platforms, wind power, connecting power plants, long distance power supply and marine power supply.

Product features

- Efficient transportation, slighter loss and long – distance transmission
- Easy to adjust and change the current power transmission direction and high stability
- No larger short circuit current and ring circuit current
- Longer life than AC system
- Improving the power quality of distribution



Subsea Dynamic Cables(SDC)

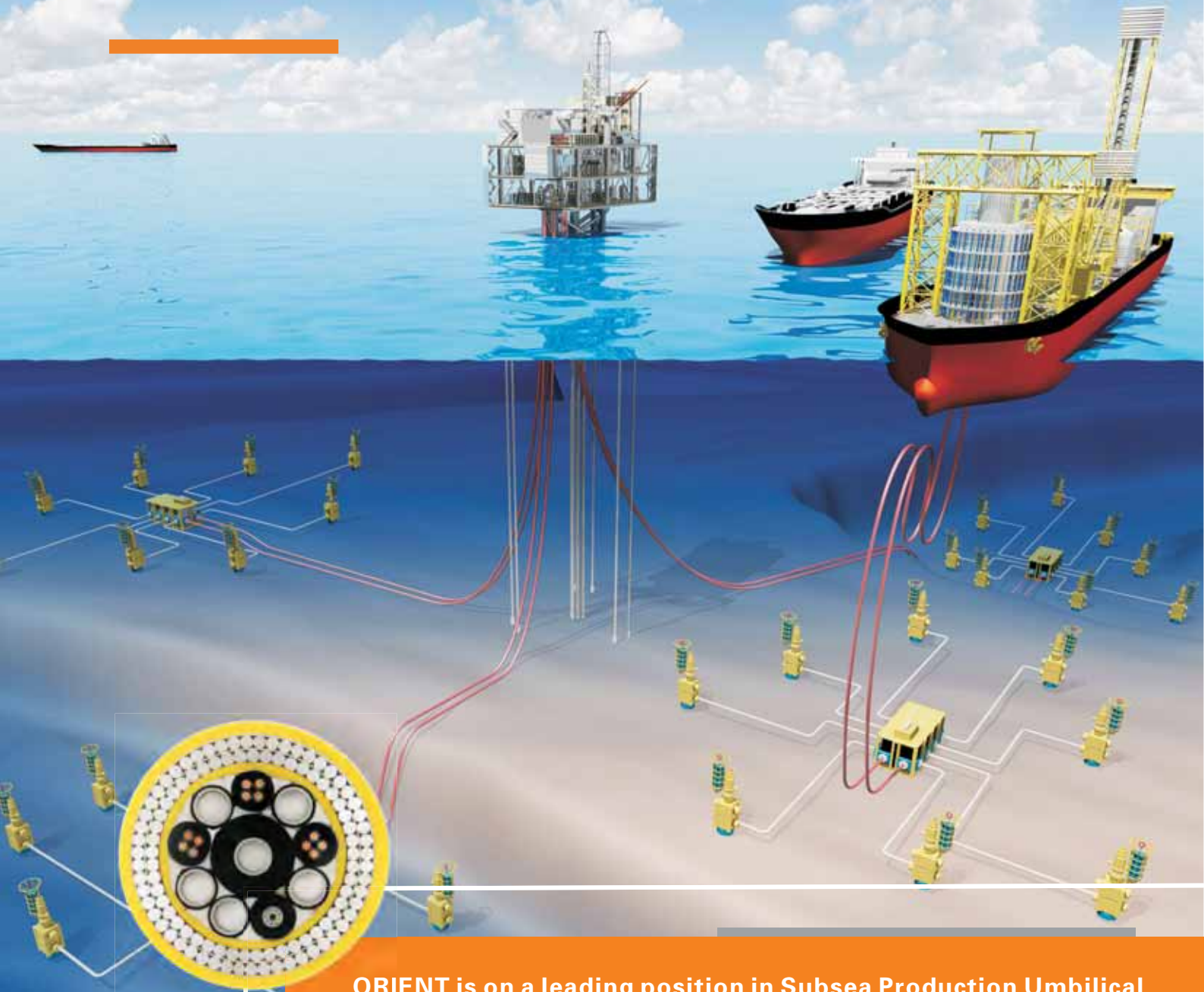
ORIENT is a leader in Subsea Dynamic Cables, used by oil and gas operators around the world for the power link for Floating platform, FPSO, and fixed platform.



The ORIENT engineering team develops Subsea Dynamic Cables with:

- Flexibility in materials selection and configuration of manufacturing processes e.g. a range of polymer options
- Three-phase AC systems with a voltage range of 1kV to 35kV.
- Both 'wet' and 'dry' design types using either EPR, TR-XLPE or XLPE three layer insulation systems
- A range of armouring options, from roundness to tetragonum, from single to multi-layer
- Coilable and non-coilable designs
- Termination pre-installation that can obvious reduce the offshore installing time and enhance the efficiency.
- Assembly, qualification and testing in-house to avoiding risk of commissioning delays
- ORIENT offers full dynamic analysis, fatigue analysis and seabed stability analysis to prove the suitability of our SDC designs. Qualification testing is available to verify our design analysis work.

Subsea Production Umbilicals (SPU)



ORIENT is on a leading position in Subsea Production Umbilical (SPU) product in China.

Our SPU's are designed to operate long-term in challenging and dynamic subsea environments. ORIENT is the only company has the capability to design, manufacture and test the SPU system in china. The products provide critical power, hydraulic control, monitoring links and connecting chemical for offshore oil & gas field.

We also offer Hydraulic Flying Leads (HFL), Electrical Flying Leads (EFL) and stab plate and connector sourcing and supply.

Subsea Equipment Umbilical (SEU)

Orient offers a full range of customer made umbilical cable providing the power, signal, and mechanical link for subsea equipments, such as ROV, trencher, renewable power generation equipment etc. Our designs offer the most compact electrical and fiber optic assembly diameter, high flexibility and can be strengthened with either high strength synthetic fibers or multi-wire armoring layers to support the weight of the associated ROV, package, handling forces, vessel motion, and tidal forces.

This product is especially suitable for subsea working condition. All design and manufacturing will be according to customer request.

Orient design offer excellent structure stability and EMC performance; thermoplastic elastomer water-tight sheath provide highly mechanical strength and abrasive resistance; highly durability and reliability; Torque balanced steel wire armoring design.



Intervention Workover Control Systems(IWOCS)

Installation and Workover Control System (IWOCS) is used to monitor and control the deployment and operation of subsea production equipment for both horizontal and vertical trees. The same system is also used for the retrieval and workover of this equipment.

IWOCS offers:

- Monitoring and control of deployment and retrieval of tubing hangers, landing strings, and subsea trees
- Facilities for downhole operations, well testing, and production testing
- Standardized workover equipment that is flexible and adaptable based on field and customer requirements
- Direct-Hydraulic and Electro Hydraulic systems



Aftermarket, Installation And Maintenance Service (AIMS)

We support customers from project installation, to pre-commissioning, with full product lifecycle support. We react quickly to regional call-offs in the field with additional resources and specialist equipment managed and delivered to meet demand.

