



Oil & Gas - SURF

Exploration & Production

Steel Tube Umbilicals

STEEL TUBE UMBILICALS

Prysmian Subsea Umbilicals, Risers and Flowlines (SURF) is offering products for connecting subsea assets to a platform or floating production system at the surface. Prysmian Steel Tube Umbilicals (STUs) offer enhanced performance for more demanding applications and are typically used for chemical injection and hydraulic control applications.

APPLICATION

Available in duplex and super-duplex stainless steel, Steel Tube Umbilicals are most commonly used for chemical injection, hydraulic control and gas lift management. Prysmian STUs offer enhanced mechanical performance, improved corrosion resistance and can operate at higher working pressures than thermoplastic hose based designs.

STANDARDS & APPROVALS

Reference Standard: ISO 13628-5 / API 17E.

QUALITY & TESTING

Prysmian Group has one dedicated R&D Center for SURF Solutions based in Brazil, which is fully integrated with other 16 R&D centers spread worldwide, in order to benefit from Prysmian's high level of synergy and efficiency.

The R&D center for SURF in Brazil is structured to allow a full development of Umbilicals and Flexible Pipes. This center relies on dedicated facilities and qualified engineers and technicians with a specific experience in SURF solutions. Our laboratories offer a great variety of solutions for application development of polymeric materials and metals, failure analysis and plant support, mainly to provide the largest possible range of options.

All raw materials used in Prysmian SURF products are developed, tested and certified according to the most stringent Quality Standards.

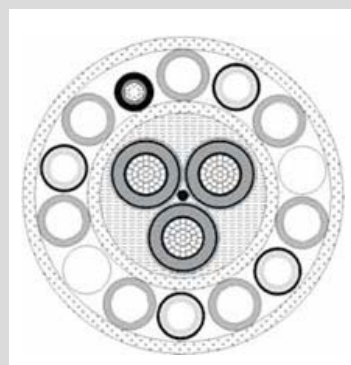
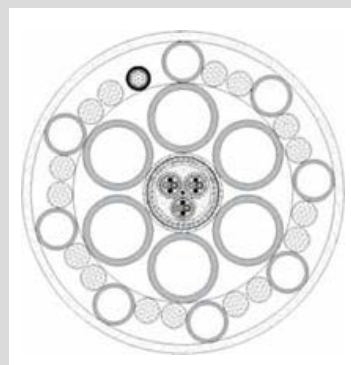
DESIGN & CONSTRUCTION

STU technology allows to design compact and optimized cable cross-section by using pre-shaped fillers.

Within Steel Tube Umbilicals, steel tubes can also have a structural function, supporting the weight of the umbilical and removing the need for tensile armoring.

STU technology allows to design compact and optimized cable cross-section by using pre-shaped fillers.

In dynamic applications the individual steel tubes can be oversheathed to prevent excessive wear, increasing fatigue resistance and service life.



CONTACT INFO:

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PRODUCT RANGE

Prysmian is able to provide a global solution for SURF products, for instance, from the cross-section definition and raw material selection up to the full qualified product and services during the product installation.

PARAMETER	VALUE
Maximum Diameter	Above 350 mm
Strength Member	Galvanized steel armour wire (Round or Flat), helically wound, duplex/super-duplex stainless steel tubes
Manufacturing length limitations	Qualified splicing processes are available. Length limited by umbilical design, packing and installation method
Maximum allowable installation tension, breaking tension, and crush load	Designed to meet specific project's requirements
Axial, bending, and torsional stiffness	Based on specific design
Design life	25 years, as standard Longer design life can be provided
Packing, transportation, and load out	Based on customer's needs. Options available include: reel, carousel, pallets, baskets
Installation methods	Umbilicals designed to suit customer's installation method

This product information sheet is provided for reference only.
For more details, please contact your Prysmian representative.

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