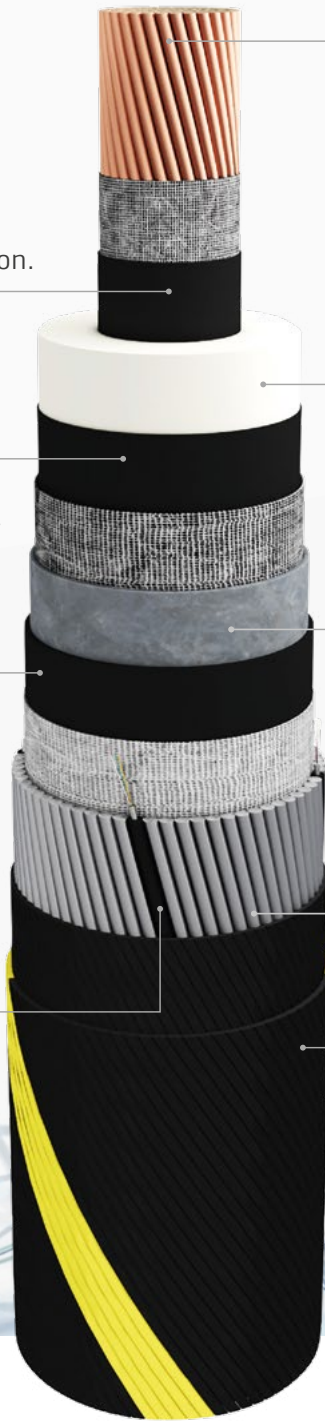


# XLPE DATASHEET | Submarine



## INNER SEMI-CONDUCTIVE LAYER

Water-swellable tapes and extruded semi-conducting screen layer, to have a smooth electrical interface with insulation.

## OUTER SEMI-CONDUCTIVE LAYER

Water-swellable tapes and extruded semi-conducting screen layer, to have a smooth electrical interface with insulation.

## ANTI-CORROSION SHEATH

An extruded layer of insulating polyethylene compound; to avoid any electrical breakdown by induced over-voltages, the metallic sheath is short-circuited with the armour wires at intermediate distances. Semiconductive polyethylene is also available.

## INTEGRATED FO CABLE

Up to 4 integrated fiber optic elements for monitoring purposes, able to accommodate both multi-mode and single-mode fibers.

## CONDUCTOR

Bare copper wires filled with sea-grade water blocking compound, with nominal cross-section area up to 3500 mm<sup>2</sup>. Aluminum is also available.

## INSULATION

Low peroxide XLPE.

## METALLIC SHEATH

The insulated core has a lead alloy sheath applied over the longitudinal water barrier.



## ARMOUR

Single or double layer of galvanized steel round wires, flushed with bitumen as further anti-corrosion protection. Double steel layer or Composite armour designs for high depth applications are also available.




## SERVING

Two layers of polypropylene strings, to protect against abrasion and reduce cable friction.

## Dimensional data for 2500 mm<sup>2</sup> copper

	Indicative diameter	160 mm
	Indicative cable weight	65 kg/m

## Electrical data for 2500 mm<sup>2</sup> copper

	Ohmic resistance	0.0072 Ω/km
	Coaxial inductance	0.15 mH/km
	Capacitance	0.22 μF/km