

P-LASER DATASHEET | Land

CONDUCTOR

Bare aluminum wires filled with water swellable tapes, with nominal cross-section area up to 4000 mm². Copper 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.

INSULATION

P-Laser, based on HPTE insulation material which is fully recyclable and compatible with existing cable accessories.

METALLIC SHEATH

The smooth metallic sheath is constituted by a longitudinally welded aluminum tape (WAS) applied over the outer semiconductive layer and water barrier, to provide water tightness, mechanical protection and to carry fault currents.

INNER SEMI-CONDUCTIVE LAYER

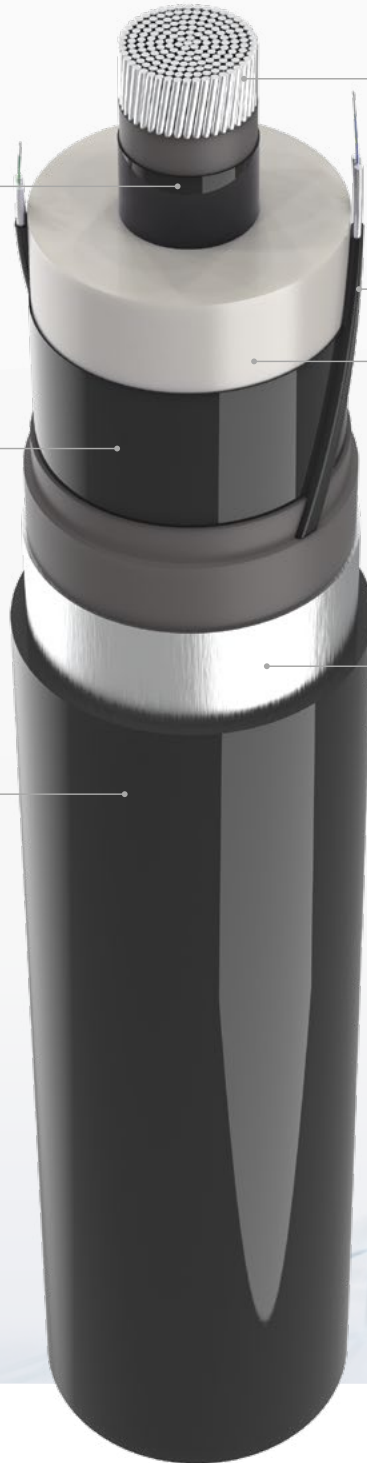
Water-swellable tapes and extruded semi-conducting screen layer, to have a smooth electrical interface with insulation.

OUTER SEMI-CONDUCTIVE LAYER



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

OUTER SHEATH




An extruded layer of red or black colored high density polyethylene compound is provided over the metallic sheath. An extruded black semi conductive layer can be applied over the outer sheath for after installation tests. Flame retardant and low smoke versions are available.



Dimensional data for 3500 mm² aluminum

	Indicative diameter	155 mm
	Indicative cable weight	25 kg/m

Electrical data for 3500 mm² aluminum

	Ohmic resistance	0.0081 Ω/km
	Coaxial inductance	0.13 mH/km
	Capacitance	0.25 μF/km