



P-LASER
Circular
power cable

The world's first fully recyclable and low environmental impact cable technology

At Prysmian we operate at the forefront of innovation and circularity. We challenge ourselves every day to make sustainability impactful and accessible. That results in real evidence-based products you, as our loyal customer, can work with today.

That's why we are thrilled to introduce our innovative high-end P-Laser cable insulation. In this way we ensure that P-Laser is your

recyclable solution to practically deploy de-carbonization while simultaneously driving value into your business.

P-Laser is an innovation constantly developing and reaching new highs. We've constantly led the world in cable solutions and P-Laser is a further continuation of this commitment to innovation, representing a breakthrough in sustainability and performance.



Key milestones in the innovative development of P-Laser

2024	●	P-Laser launched on the Swedish market
2023	●	Publication of HD620 S3, officially including the new part related to PP-TPE
2019	●	P-Laser reaches 50.000km production milestone
2018	●	Qualification PQT HVDC for P-Laser 525kV
2011	●	Extension of product range up to 30kV for wind projects
2009	●	Production of 3000km core was achieved in Italy
2007	●	Installation & plug-in in The Netherlands for triplex solid 240mm ²
2005	●	P-Laser prototype production was initiated
2003	●	P-Laser development began in the Milan R&D center

The Prysmian P-laser proposition

Excellent cable properties

P-laser insulation is a so-called High Performance Thermoplastic Elastomer (HPTE). It is PP based, characterized by a high flexibility, good thermo-mechanical properties, and excellent electrical behavior. The P-Laser insulation has a higher resistance towards developing water trees, cavities, and crystallization compared to XLPE. And even at very low temperatures, down to -25°C , the HPTE material does have a breakage extension of 300%.

Reduced CO₂eq product footprint

A major benefit of P-Laser insulation is that it doesn't require any crosslinking.

This reduces the energy consumption of the P-laser manufacturing process, and eliminates the emissions of green house gases-emissions associated with the XLPE cross linking process. Therefore, a cable with P-Laser insulation has a reduced CO₂eq product footprint.

Improved product circularity

Being thermoplastic instead of being crosslinked, the P-laser insulation is 100% recyclable at end of life. This is improving the circularity of this cable.

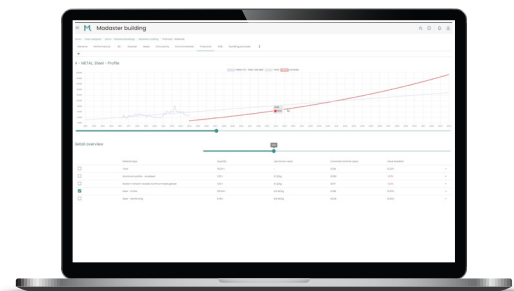
Prysmian offers the first fully recyclable and low-impact MV-cable insulation in the world.



Trustworthy partner: Madaster

For our innovative P-Laser cable we have partnered up with our trusted partner: Madaster. Their online platform enables you to access real-time valuable insights on your assets. Paving the way for a fully circular economy.

.madaster



100%

recyclable insulation

