

THEVA Pro-Line: HTS wires produced by e-beam PVD

Thin. Robust. Efficient.



- Excellent performance
- Long lengths
- Competitive pricing

Pro-Line Series: Highest performance and reliability for different applications – made in Germany

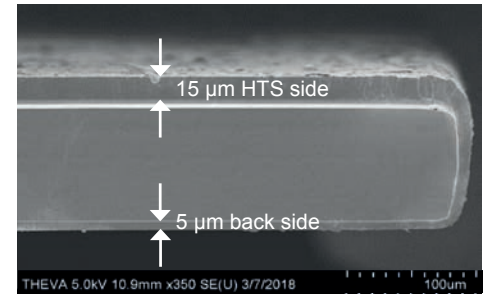
THEVA offers with Pro-Line a wide range of superconducting wires (coated conductors) for cables, rotating machines or high field magnets

Specification for THEVA Pro-Line	
Substrate Thickness	50 μm / 100 μm
Width	4 / 6 / 12 mm
Piece Length	up to 300 m
Critical Current (77 K, s.f.)	up to 420 A/cm width
Copper surround coating	up to 20 μm per side
Copper lamination thickness	30 / 40 / 100 μm on HTS side
Joint resistance	60 n Ω * cm ² (typical)

NEW: PVD Copper Coating

THEVA's alternative for copper surround coating by copper plating

- Highest geometrical shape accuracy
- Optimized thickness distribution possible, e.g. 15 + 5 μm
- No dogboning



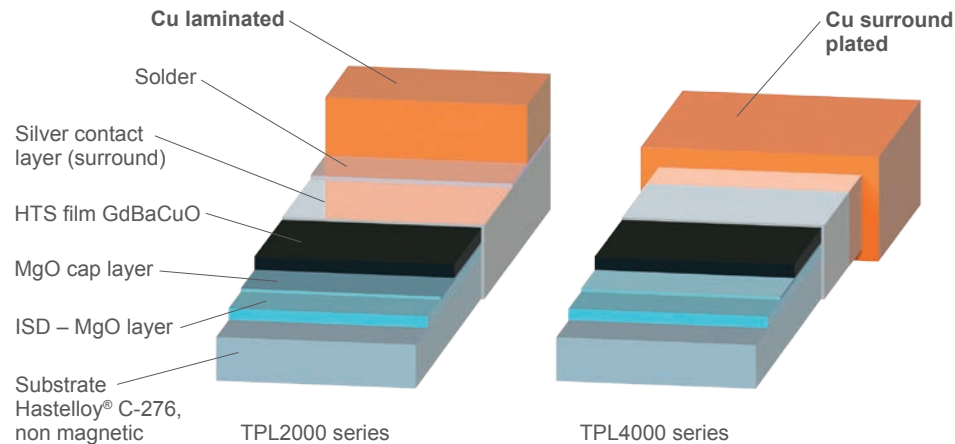
SEM cross section of PVD copper coating

TPL2000 and TPL4000 series

Mechanical and electrical stabilization according to your needs:

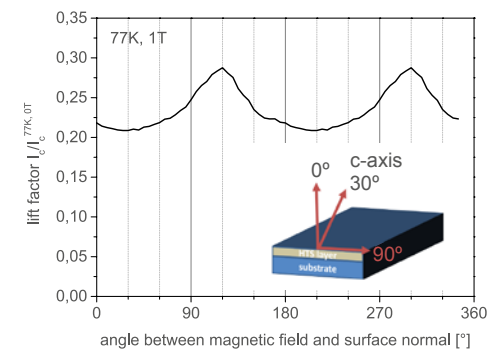
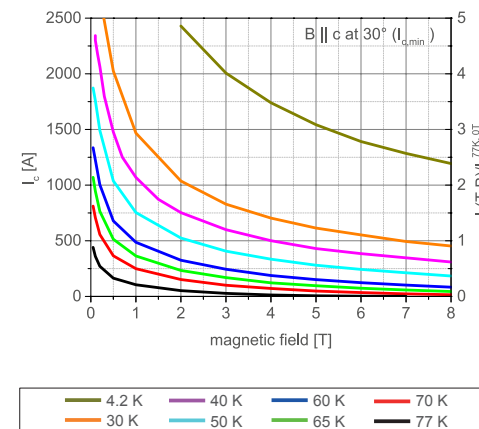
Copper lamination (picture on the left) on the HTS side of the wire, our proven type used e.g. for HTS coils of a wind power generator (www.ecoswing.eu).

Surround copper coating (picture on the right) for all kinds of applications.



Magnetic field performance

Below, on the left side you see the lift factor for $B \parallel c$ and the corresponding I_c for a tape with 500 A @ 77 K, self field. $B \parallel c$ represents the minimum value. Higher lift factors are possible, depending on the field angle. The angular magnetic field dependence of the lift factor is shown below on the right side.



Get in touch with us

With our headquarter in Germany and sales representatives worldwide, we are happy to assist and consult you to find the best superconductor solution for your application.

Our contact persons at the German Headquarter



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