

THEVA Pro-Line: HTS wires making the difference

Reliable. Robust. Efficient.



- Excellent performance
- Tailored to your application
- Key to high-field magnets

Pro-Line Series: Superior performance a

THEVA Pro-Line: Coated conductors for a wide range of applications

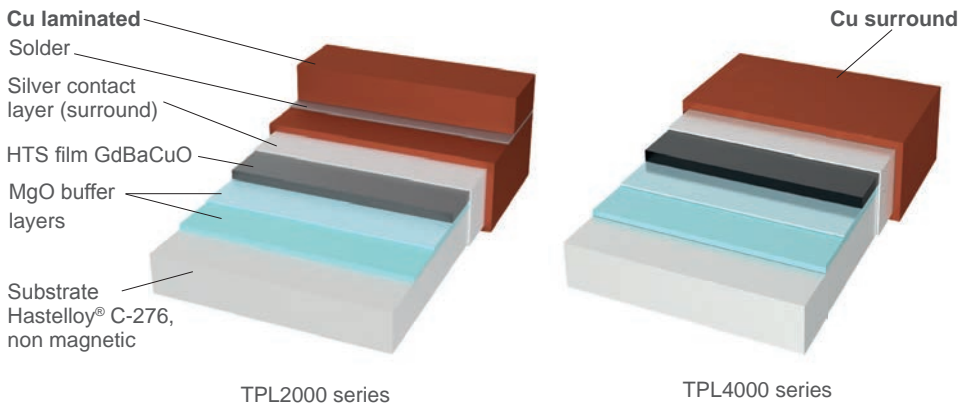
Specsheet THEVA Pro-Line	
Substrate thickness	50 / 100 μm
Width	12 / 6 / 4 / 3 mm
Piece length	up to 300 m
Standard: Current density (77K, s.f.)	up to 750 A/mm ² *
Artificial Pinning: Current density (20K, 20 T)	up to 800 A/mm ² *
Copper surround coating	up to 10 μm per side
Copper lamination thickness	100 / 150 μm on HTS side
Solder coating	upon request
Joint resistance	20 n Ω * cm ² (typical)

TPL2000 and TPL4000 series

Mechanical and electrical stabilization according to your needs:

Copper lamination (left) on the HTS side of the wire, our proven solution for e.g. transmission cables or for superconducting fault current limiters.

Copper surround coating (right) for magnetic field applications (coils).



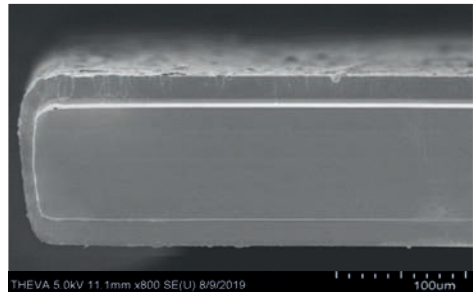
* Measurement performed on tape with 50 μm substrate

Performance and highest reliability – Made in Germany

Copper coating

THEVA uses a shape conform surround copper coating

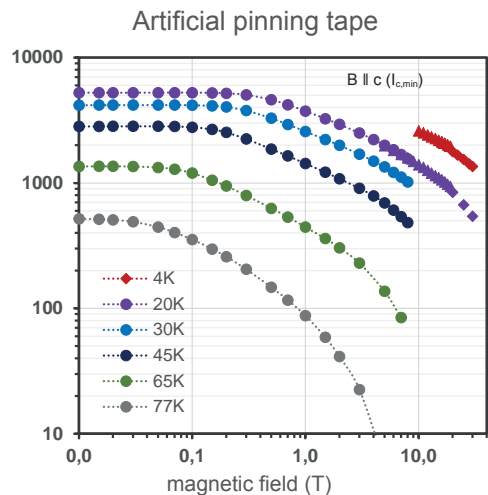
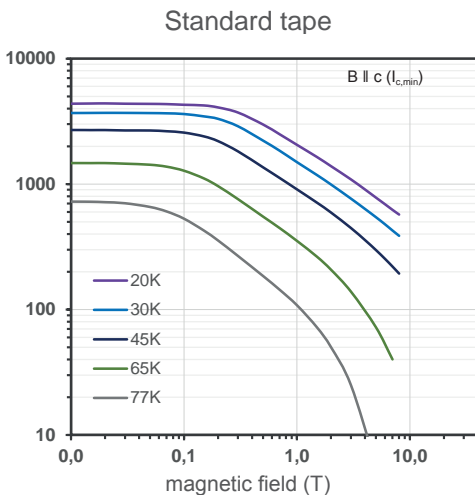
- Highest geometrical shape accuracy
- Up to 10 μm thickness
- No dog boning effect



SEM cross section of copper coated tape

Performance at various temperatures and magnetic fields

The engineering current density J_e (A/mm^2) for $B \parallel c$ is shown for standard tapes (left) and tapes with artificial pinning (AP) formula (right). $B \parallel c$ represents the direction with minimum I_c value.



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.

Your direct line to THEVA



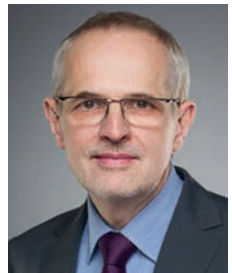
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