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**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substrate Thickness</td>
<td>50 µm / 100 µm</td>
</tr>
<tr>
<td>Width</td>
<td>4 / 6 / 12 mm</td>
</tr>
<tr>
<td>Piece Length</td>
<td>up to 300 m</td>
</tr>
<tr>
<td>Critical Current (77 K, s.f.)</td>
<td>up to 420 A /cm width</td>
</tr>
<tr>
<td>Copper surround coating</td>
<td>up to 20 µm per side</td>
</tr>
<tr>
<td>Copper lamination thickness</td>
<td>30 / 40 / 100 µm on HTS side</td>
</tr>
<tr>
<td>Joint resistance</td>
<td>60 nΩ * cm² (typical)</td>
</tr>
</tbody>
</table>

**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

**Magnetic field performance**

Below, on the left side you see the lift factor for B // c and the corresponding $I_c$ for a tape with 500 A @ 77 K, self field. B // 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.

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