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## SynShield® Type 1

Copper foil on one side with SynTherm® insulating material.

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### Attributes

SynShield® copper conductor is a flexible copper foil laminated with various insulating materials.

SynShield® is just perfect for winding. There are two production methods for SynShield®:

- The insulation is applied during a special process without adhesive. This process guarantees excellent soldering behaviour and a low total strength.
- The insulation is applied with the aid of an adhesive.

Formats:

- lateral overlap acc. to customer specifications
- types without adhesive: PET films
- types with adhesive (SynTape®):
  - PET films
  - aramid papers
  - PI films

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### Application

SynShield® is mainly used in transformers and can be applied as electromagnetic or electrostatic shielding between the primary and secondary winding. SynShield® is also used as a replacement for enamelled copper wires.

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### Standards

- Thermal class B, F, H (depending on insulation)
- UL-file-no. E301705 (only SynShield® with PET)

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### Delivery forms

100 and 200 m rolls with 76 mm core.

Other dimensions and lengths on request.

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### Conductor

Copper film of at least 99.90 % Cu and with a high or even high electrical conductivity.

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### Additional information

\* Values are typical values of the individual unprocessed foil.

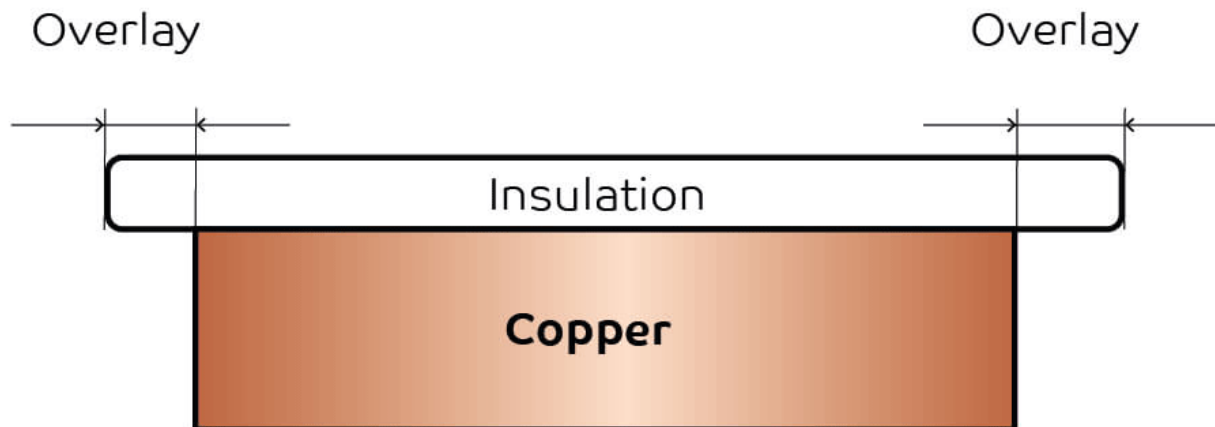
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Updated 07/19



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| General           | Unit of measure | Copper             | PET                | PET (adhesive)      | Aramid paper (adhesive) | PI-film (adhesive)  |
|-------------------|-----------------|--------------------|--------------------|---------------------|-------------------------|---------------------|
| Width             | mm              | 6-50 ( $\pm 0.5$ ) | 6-50 ( $\pm 0.5$ ) | 6-50 ( $\pm 0.5$ )  | 6-50 ( $\pm 0.5$ )      | 6-50 ( $\pm 0.5$ )  |
| Backing thickness | mm              | 0.035-0.300        | 0.030              | 0.023               | 0.050                   | 0.025               |
| Total thickness   | mm              |                    |                    | 0.060 ( $\pm 0.5$ ) | 0.100 (0.5)             | 0.060 ( $\pm 0.5$ ) |

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