SynFlex Elektro GmbH
Auf den Kreuzen 24
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E-Mail info@synflex.de

## SynShield® Type 3

Copper foil fully covered with SynTherm® insulating material - with overlay.

### 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. Thsi process guarantees excellent soldering behaviour and a low total strength.
- The insulation is applied with the aid of an adhesive.

Formats:

- without soldering gap
- types without adhesive: PET films
- types with adhesive (SynTape®):
  PET films
  aramid papers
  PI films

### 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.

### Standards

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

### Delivery forms

100 and 200 m rolls with 76 mm core.

Other dimensions and lengths on request.

### Conductor

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

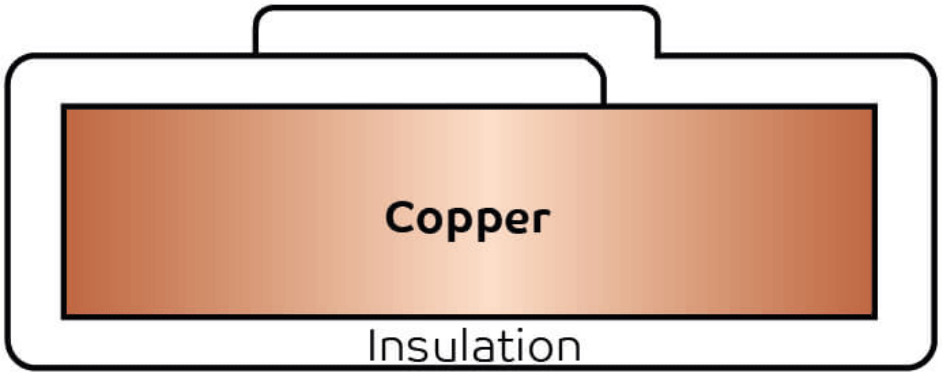
### Additional information

*Values are typical values of the individual unprocessed foil.

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.
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 (±0.5) | 6-50 (±0.5) | 6-50 (±0.5) | 6-50 (±0.5) | 6-50 (±0.5) |
| Backing thickness | mm | 0.035-0.300 | 0.030 | 0.023 | 0.050 | 0.025 |
| Total thickness | mm | | | 0.060 (±0.5) | 0.100 (±0.5) | 0.060 (±0.5) |

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