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

SynShield® Type 2

Copper foil on both sides with SynTherm® insulating material.

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 with 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

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 a high or even high electrical conductivity.

Additional information

*Values are typical values of the individual unprocessed foil.

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Updated 07/19

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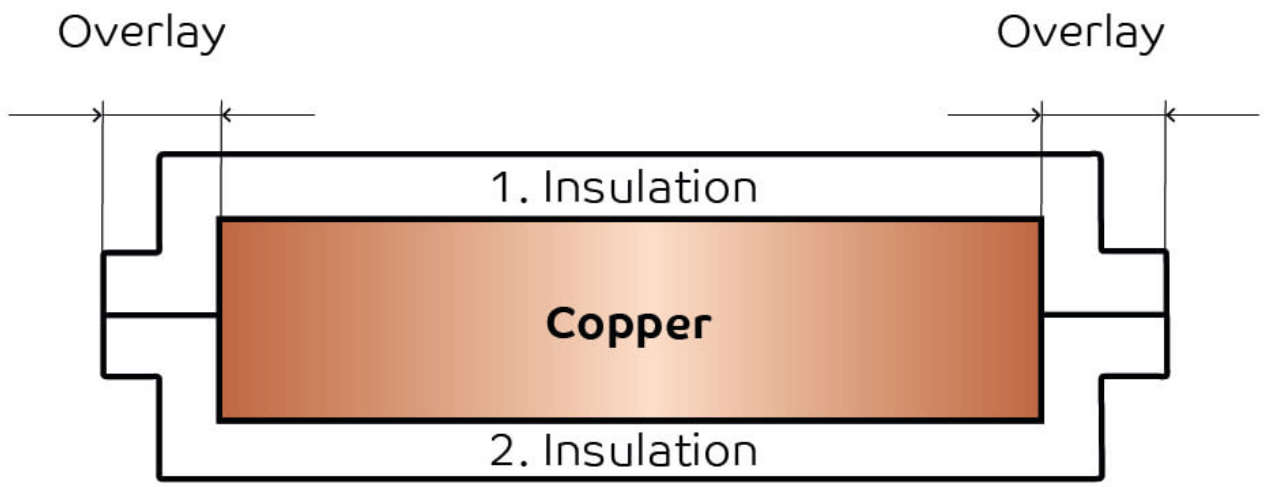

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General	Unit of measure	Copper	PET	PET (Adhesive)	Aramid paper (adhesive)	PI-film (adhesive)
Width	mm	6-50 (±0.5)	6-50 (±0.5)	6-50 (±0.5)	6-50 (±0.5)	6-50 (±0.5)
Backing thickness	mm	0.035-0.300	0.030	0.023	0.050	0.025
Total thickness	mm			0.060 (±0.5)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

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