

SynWire WW – Wrapped copper & aluminium conductors



Wrapped copper & aluminium conductors

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Wrapped copper & aluminium conductors

Your product benefits

Combination possibilities

Bobbin types

Your advantages

Production know-how and best possible quality

Our product policy follows the maxim – highest quality from a single source. We do not strive for quick success and partial solutions, but focus on comprehensive support for our customers.

Our state-of-the-art machinery enables us to meet most demanding specifications, regardless of the material – paper, non-woven, films, laminates, adhesive or non-adhesive.

The integration of SynWire WW into our existing production processes opens up an unlimited number of different insulations. The entire SynFlex converting know-how is accessible for the benefit of the production of SynWire WW.

No standards

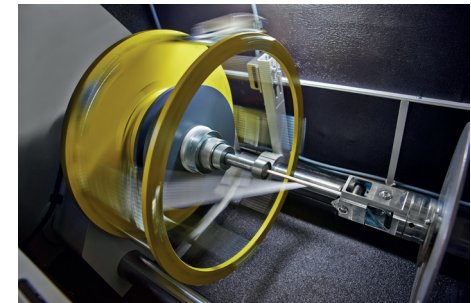
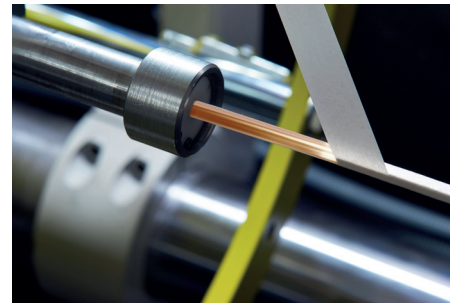
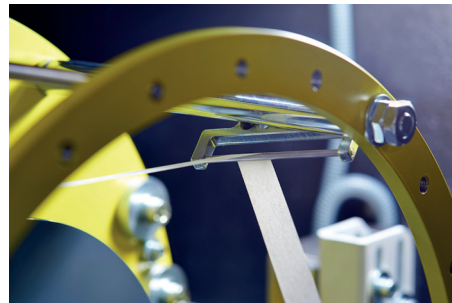
Due to the large number of factor combinations, wrapped wires are always individual and tailored to the requirements of our customers.

There are no standard applications. Each demand requires reorientation with respect to the end product.

Our in-house production of SynWire WW enables us to follow your requirements and specifications and to support you from initial planning to implementation.

Areas of application

Wrapped copper & aluminium conductors are used in many applications in automation, power electronics, drive technology, medical and railway technology.



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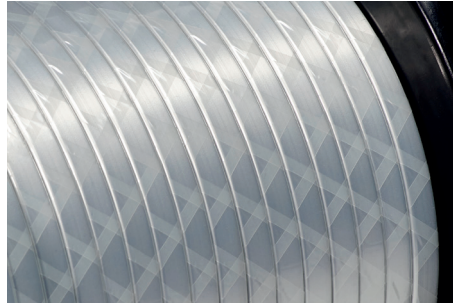
Wrapped copper & aluminium conductors

Your product benefits

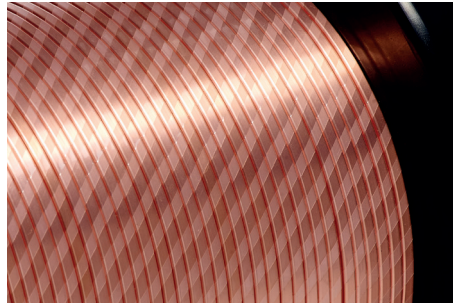
Combination possibilities

Bobbin types

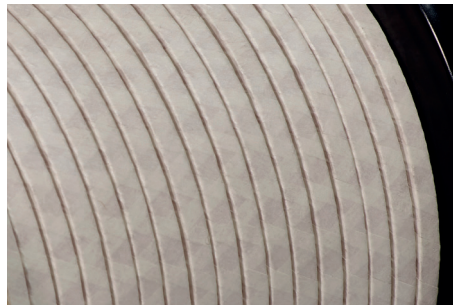
Your advantages



flat enamelled aluminium wire insulated with 2 layers SynTherm® P, in opposite directions, 20 % overlap



flat copper wire insulated with 1 layer SynTherm® P, 30 % overlap



flat copper wire with 2 layers SynTherm® YT510, in opposite directions, 30 % overlap



flat aluminium wire insulated with 2 layers SynTherm® H, in opposite directions, 25 % overlap



Your product benefits

- high mechanical flexibility
- individual product structure due to different winding technologies
- highest possible temperature resistance
- very good mechanical protection
- good penetration during impregnation
- good machine processing

Combination possibilities

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Range of products	Copper / aluminium conductor (bare)	Copper / aluminium conductor (coated)		
Cross section	up to 120 mm ²			
Diameter conductor	from 1.00 to 6.00 mm (other dimensions on request)			
Insulation strands		Class	Norm	Delivery form
		155 °C	DIN EN 60317-50	Grade 1 & 2
		180 °C	DIN EN 60317-51	Grade 1 & 2
		180 °C	DIN EN 60317-23	Grade 1 & 2
		200 °C	DIN EN 60317-08	Grade 1 & 2
		210 °C	DIN EN 60317-13	Grade 1 & 2
		210 °C	DIN EN 60317-38	Grade 1 & 2
		220 °C	DIN EN 60317-26	Grade 1 & 2
		other wire insulations on request		
Min. & max. profile	from 4.00 mm x 1.60 mm to 20.00 mm x 5.60 mm, other profile dimensions on request			
Wrapping	aramid papers SynTherm® YT510 and SynTherm® YT564, SynTherm® P, SynTherm® H, SynTape® electrical adhesive tapes, kraft paper (smooth or creped), mica, wrapping crosswise with 1 to 3 layer, other materials on request			
Overlay	standard overlap 20 % - 50 %, other on request			

Wrapped copper &
aluminium conductors

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Combination
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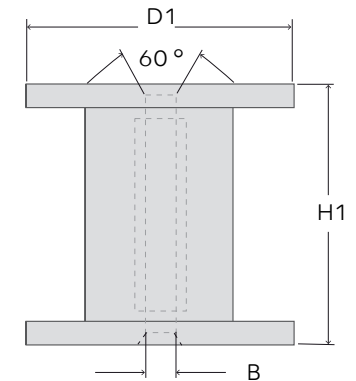
Bobbin types

Your advantages

Bobbin types

We produce the following bobbin types for you.

Bobbin type cylindrical	D1	H1	B	Cul nom- \varnothing in mm		Tare kg	Filling weight appr. kg	Bobbins per pallet piece
				min	max			
IEC 60264-2-2	mm	mm	mm					
K355	355	200	36	0.710	2.000	3.20	45	12
K500	500	250	36	1.060	6.000	7.65	90	6
K630	630	230	40	flat wire		9.60	180	4
K710	710	250	47	flat wire		18.40	200	4



Your advantages

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Decaeds of experience in the production of enamelled wire and special wires.



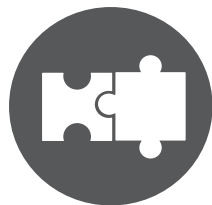
Short lead time thanks to the SynFlex Group network.



Continuously expanded state-of-the-art machinery.



High product availability and product variance due to high storage capacities.



Numerous options of various material combinations.

At highest level.
The complete **SynFlex** product range.

Winding

Premium Winding Wires
SHWire

Winding Wires
SynWire

Litz & Special Wires
SynWire WW

**Copper &
Aluminium Foils**
SynShield®

Insulate

Insulating Materials
SynTherm®

Electrical Adhesive Tapes
SynTape®-Intertape®-Isotape®

**Electrical Insulating
Sleeving**
SynSleeve

Resins & Varnishes
SynChem

**Stamped & Shaped
Components**
SynPrep

Wrapping Tapes
SynWrap

Connect & Equip

**Connecting Cables &
Transformer Terminals**
SynCon®

Temperature Monitoring
SynTemp®

**Special Components &
Accessoires**
SynParts

SynFlex Group

**Laboratory Services &
UL Services acc. to 1446**
SynLab®

Consulting & Services
SynServ

SynFlex International

Common Goal – Joint Progress:
The Resource of Power.



Insulation Systems, www.synflex.com



Magnet Wires, www.sh-wire.de



Electric Insulation, www.isotek-gmbh.de