## **ASSORTMENT OF WIRES**



SPEZIALDRÄHTE

	Bare wires (in mm)	Rectangular and round wires Insulated with polyimide sheet (in mm)	Rectangular and round wires Insulated with mica sheet (in mm)	Rectangular and round wires Insulated with paper or aramid paper (in mm)	Rectangular and round wires Enamelled (in mm)	Rectangular wires Insulated with glass filament and/or mixed yarn (in mm)	<b>Litz wire</b> Insulated with mica and/or PET sheet
Conductor material	Rectangular wire Round wire	Rectangular wire Round wire	Rectangular wire Round wire	Rectangular wire Round wire	Rectangular wire Round wire	Rectangular wire	Single round wire
Dimensions of rectangular wire acc. to DIN EN  Dimensions of round wire acc. to	Rectangular wire Width: 3.3530.00 Thickness: 1.007.00 Round wire	Rectangular wire Width: 3.3516.00 Thickness: 1.007.00 Round wire	Rectangular wire Width: 3.3525.00 Thickness: 1.007.00 Round wire	Rectangular wire Width: 3.3525.00 Thickness: 1.007.00 Round wire	Rectangular wire Width: 3.3514.00 Thickness: 1.005.60 Round wire	Rectangular wire Width: 3.3520.00 Thickness: 1.005.00	Single wire Cross section of litz wire: 1.5 mm <sup>2</sup> 150 mm <sup>2</sup>
Insulation/ design	Ø: 0.50 11.00	Ø: 0.856.00  • Polyimide sheet, FEP coated and hot-sealed, also corona resistant	Ø: 0.856.00  • Mica sheet • Combinations with enamelled wire and/or PET sheet possible • High-temperature-resistant glass fibre Mica tape with and without PET sheet • TI 155°C • Further variants possible at the customer's specifications	Ø: 0.856.00  • Kraft paper, also with high thermal stability  • Nomex®  • Possible in combination with enamelled	Ø: 0.50 2.60  Rectangular wire	Combinations with bare, enamelled or polyimide-sheet insulated wires possible Glass filament and/or mixed yarn, impregnated TI 155°C180°C	• PET sheet • Mica sheet • Ti 155°C • Further variants possible at the customer's specifications
Increase		Acc. to the customer's specifications	Acc. to the customer's specifications	Acc. to the customer's specifications	• Class 1 • Class 2 • Class 3 Acc. to the DIN EN or customer's specifications	Acc. to the customer's specifications	Acc. to the customer's specifications
Number of layers/ taping		•1 layer •2 layers, opposite directions	•1 4 layers • Same and opposite directions • Further layers on request	•1 8 layers • Same or opposite • Further layers on request		•1 layer •2 layers same direction	•1 3 layers, same direction •2 layers, opposite direction
Overlap		Steplessly variable, max. 75%	Edge to edge, steplessly variable, max. 75%	Edge to edge, steplessly variable •Rectangular wire max. 80% •Round wire max. 50%			Steplessly variable, min. 30% to max. 80%
Application examples	Conductor material for further insulation     Rotor bars	Traction motors Special- purpose motors Motors for high- temperature applications  *	High- and low-voltage machines     Frequency-converter-proof extraction     Gas motors     Fire resistant cables     Transformers  *	Transformer windings Reactors  *	• Motors • Generators • Transformers	Traction motors Generators High-voltage motors Special-purpose motors  *	HF motors     Reactors     Transformers

<sup>\*</sup> Insulated round wire is not suited for drawing-in technology!



Copper round wire

Bare



rectangular wire



Insulated with



polyimide sheet

Copper

rectangular

wire

Insulated with

2 layers of

polyimide sheet



Copper rectangular wire

Mica-insulated

**Round wire** 

Insulated with glass



Enamelled with mica tape



rectangular wire Insulated with

Nomex® aramid

paper



Insulated with Nomex® aramid paper



Copper wire

rectangular Enamelled



Enamelled



Copper rectangular wire

Enamelled and braided with 1 layer of mixed yarn



**Stranded** copper wire 6 mm<sup>2</sup> Insulated with PET film



**Stranded** copper wire 35 mm² Insulated with PET film

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