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) * T	Rectangular and round wires enamelled (in mm)	Rectangular wires insulated with glass filament and/or mixed yarn (in mm) *	Litz wire 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
Rectangular wire '' acc. to DIN EN Width (W) Thickness (T)	W: 1.00 30.00 T: 0.80 7.00	W: 1.0016.00 T: 0.807.00	W: 1.00 25.00 T: 0.80 7.00	W: 3.3520.00 T: 1.007.00	W: 1.00 14.00 T: 0.80 6.00	W: 3.3520.00 T: 1.005.00	Single wire Cross section of litz wire: 6 mm² 70 mm²
Round wire acc. to DIN EN	Ø: 0.5011.00	Ø: 2.00 6.00	Ø: 0.856.00	Ø: 2.006.00	Ø: 0.502.60		
Insulation/ design		Polyimide sheet, FEP coated and hot-sealed, also corona resistant (TI 220°C)	Mica with PET-liner (TI 155°C) Mica with PI-liner (TI 185°C) Mica with glass fibre liner (TI on request) Combinations with enamelled wire and/or PET sheet possible	Kraft paper Nomex® (TI 120°C) Possible in combination with enamelled	Rectangular wire • Enamel Polyamidimide acc. to DIN EN (TI 220°C) Round wire • Base coat Polyesterimide, Over coat Polyamidimide acc. to DIN EN (TI 200°C) • UL-file: MW35-C	Combinations with bare, enamelled or polyimide-sheet insulated wires possible (TI 155°C180°C) Glass filament and/or mixed yarn, impregnated	• PET sheet • Mica sheet (TI 155°C) •••
Increase		Acc. to the customer's specifications	Acc. to the customer's specifications	Acc. to the customer's specifications	• Class 1, 2 and 3 acc. to DIN EN or to the customer's specifications	Acc. to the customer's specifications	Acc. to the customer's specifications
Number of layers/ taping		• 1 2 layers opposite directions	• 1 4 layers same and opposite directions ***	• 1 8 layers same and opposite directions ***		• 1 2 layers opposite directions	•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

^{*}Insulated round wire is not suited for drawing-in technology! ** Feasibility depends on the W/T ratio

^{***} Further variants possible at the customer's specifications



round wire Insulated with polyimide sheet Bare



Round wire Insulated with glass fibre mica tape



Round wire Enamelled with mica tape



Round wire Insulated with Nomex® aramid paper



Round wire Enamelled



copper wire 6 mm² Insulated with PET film



Stranded copper wire

35 mm² Insulated with PET film



rectangular wire

Bare



rectangular wire Insulated with 2 layers of polyimide sheet



wire Mica-insulated



wire Insulated with Nomex® aramid paper



Enamelled



Enamelled and braided with 1 layer of mixed yarn