ASSORTMENT OF WIRES

PARTZSCH
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) *	**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: 3.35 ... 30.00 T: 1.00 ... 7.00	W: 3.35 ... 16.00 T: 1.00 ... 7.00	W: 3.35 ... 25.00 T: 1.00 ... 7.00	W: 3.35 ... 20.00 T: 1.00 ... 7.00	W: 3.35 ... 14.00 T: 1.00 ... 6.00	W: 3.35 ... 20.00 T: 1.00 ... 5.00	**Single wire** Cross section of litz wire: 6 mm² ... 70 mm²
Round wire acc. to DIN EN	Ø: 2.80 ... 11.00	Ø: 2.00 ... 6.00	Ø: 0.85 ... 6.00	Ø: 2.00 ... 6.00			
Insulation / design		▪ Polyimide sheet, FEP coated and hot-sealed, also corona resistant (TI 240°C)	▪ Mica with PET-liner (TI 155°C) ▪ Mica with PI-liner (TI 180°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	▪ Enamel Polyamidimide acc. to DIN EN (TI 220°C)	▪ Combinations with bare, enamelled or polyimide-sheet insulated wires possible (TI 155°C ... 180°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

Copper round wire
Bare

Round wire
Insulated with polyimide sheet

Round wire
Insulated with glass fibre mica tape

Round wire
Enamelled with mica tape

Round wire
Insulated with Nomex® aramid paper

Stranded copper wire
6 mm² Insulated with PET film

Stranded copper wire
35 mm² Insulated with PET film

Copper rectangular wire
Bare

Copper rectangular wire
Insulated with 2 layers of polyimide sheet

Copper rectangular wire
Mica-insulated

Copper rectangular wire
Insulated with Nomex® aramid paper

Copper rectangular wire
Enamelled

Copper rectangular wire
Enamelled and braided with 1 layer of mixed yarn

PARTZSCH Spezialdrähte GmbH · Ossig Nr. 9 · D-04741 Rosswein
Telephone +49 (0) 34322 6681-10 · Fax +49 (0) 34322 6681-11 · spezialdraehte@partzsch.de · **www.partzsch.de**

02/2026