

ASSORTMENT OF WIRES



| | 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 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 | 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: 1.00 ... 16.00 T: 0.80 ... 7.00 | W: 1.00 ... 25.00 T: 0.80 ... 7.00 | W: 3.35 ... 20.00 T: 1.00 ... 7.00 | W: 1.00 ... 14.00 T: 0.80 ... 6.00 | W: 3.35 ... 20.00 T: 1.00 ... 5.00 | Single wire Cross section of litz wire: 6 mm ² ... 70 mm ² |
| 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 | | <ul style="list-style-type: none"> ▪ Polyimide sheet, FEP coated and hot-sealed, also corona resistant (TI 180°C) | <ul style="list-style-type: none"> ▪ 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 *** | <ul style="list-style-type: none"> ▪ Kraft paper ▪ Nomex® (TI 120°C) ▪ Possible in combination with enamelled | <ul style="list-style-type: none"> ▪ Enamel Polyamidimide acc. to DIN EN (TI 220°C) | <ul style="list-style-type: none"> ▪ Combinations with bare, enamelled or polyimide-sheet insulated wires possible (TI 155°C ... 180°C) ▪ Glass filament and/or mixed yarn, impregnated | <ul style="list-style-type: none"> ▪ 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 and 2 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. 80% | Edge to edge, steplessly variable, max. 75% | Edge to edge, steplessly variable | | | Steplessly variable, min. 30% to max. 80% |
| Application examples | <ul style="list-style-type: none"> ▪ Conductor material for further insulation ▪ Rotor bars | <ul style="list-style-type: none"> ▪ Traction motors ▪ Special-purpose motors ▪ Motors for high-temperature applications | <ul style="list-style-type: none"> ▪ High- and low-voltage machines ▪ Frequency-converter-proof extraction ▪ Gas motors ▪ Fire resistant cables ▪ Transformers | <ul style="list-style-type: none"> ▪ Transformer windings ▪ Reactors | <ul style="list-style-type: none"> ▪ Motors ▪ Generators ▪ Transformers | <ul style="list-style-type: none"> ▪ Traction motors ▪ Generators ▪ High-voltage motors ▪ Special-purpose motors | <ul style="list-style-type: none"> ▪ 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

