

The next magnet wire-generation for smaller and lighter designs.

LEONI exMW

Wires with high performance polymer insulation



Applications

E-Drive, Generator, Compressor

For Hairpin and continuous wire winding processes

Characteristics

- Temperature range 200°C up to 240°C
- Thermoplastic Insulation material
- Variable wall thickness 50µm up to 300µm
- Solid Cu or Al conductor, as flat, rectangular or round wire

As specialist, LEONI has developed a new approach for motor winding solutions: solid wires are covered with an ultrathin monolayer of polymer insulation materials.

Wide range of design options

- ✓ Allows use of SiC-technique
- ✓ Choice of conductor shape and materials
- ✓ Design supports Hairpin and continuous wire winding

Ecofriendly

- ✓ Free of solvent
- ✓ Recyclability of materials
- ✓ Ultrathin monolayer for smaller and lighter designs

Product properties

- ✓ Strong adhesion to conductor material
- ✓ High dielectric as well as mechanical strength
- ✓ Outstanding temperature and chemical resistance



The rectangular shape of wire helps to increase the slot fill factor to enable more torque and power of your electric engine.

thermal stability
 adhesion strength
 varnish possible
 rail
 highly customizable
 flat | rectangular | round
 CU or AL
 400V
 Monolayer
 automotive
 material recycling
 wind
 800V
 1000V
 high copper fill factor
 SiC technique
 automated process
LEONI exMW
 mechanical strength
 abrasion resistance
 no lacquer
 no solvent
 only thermoplastic material
 dielectric performance