



WINDING WIRES FLAT

Manufacturers of large electric machines rely on insulated round and flat wires made of copper and aluminium. These wires are used in the production of windings for motors, generators and transformers.

We offer a wide range of different insulation build-up and thus support the specific requirements of our customers.

In order to meet the increased demand for innovative products, flat wires with new types of insulation such as high-performance polymers have been developed.

CORONA RESISTANT KAPTON® POLYIMIDE COPPER WIRE :

Polyimide film with corona/partial discharge resistant property for AC traction motors. Additionally the film has better thermal conducting properties compared to standard polyimide film. Enhanced thermal transfer properties makes it ideally suited for variable frequency drives.

KAPTON® POLYIMIDE WIRE :

Kapton® polyimide film with FEP adhesive wrapped on flat copper wire to achieve required insulation thickness. The film is bonded to copper which is cleaned for better adhesion, by high frequency induction heating combined by radiant heating to obtain a void free and uniform insulation that can withstand high operating temperature for continuous duty application. The film covered wire meets all requirements of a traction duty motor, harsh environment conditions and mechanical stresses like vibrations.

Benefits:

- Superior ability to withstand cyclic TEAM (thermal, electrical, ambient and mechanical) stresses.
- Voltage endurance requirement at high frequency.
- Operational reliability under harsh environmental conditions of vibration, shock, humidity, ambient temperature etc.
- Suitable for winding methods for high space factor.