



# **MAFEL<sup>®</sup>**

RAPPRESENTANZE FORNITURE  
PER L'ELETTROMECCANICA

Enamelled Copper Wire  
Dielectric insulating materials  
Electrical adhesive tapes  
Winding Tapes  
Insulating coatings and resins  
Tie cords  
Insulating tubes and sleeveings  
Special Electric Cables  
Electromechanical Equipment  
Glass fiber and beech wood rods  
Terminal Blocks for electric motors

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## ABOUT US



## EXPERIENCE

**MAFEL**, with its knowledge acquired in over thirty years in the electromechanical sector and with its high technical-commercial professionalism is a primary reference point for needs, products and technologies for construction and repair of electric motors, transformers and electric pumps.

## CARE

**MAFEL** operates nationally and internationally with flexibility and efficiency. It's always at the complete disposal of its customers thanks to a scheduled transfer service, making deliveries with its own agents or with affiliated carriers.

## EXPERTISE

**MAFEL** is the ideal partner for those seeking professionalism and knowledge of the entire supply chain, in order to determine the choice of products, insulation systems and application technologies most suitable to their needs

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## ENAMELLED COPPER WIRE



(Examples of different copper types)

**MAFEL**, with over thirty years of experience and knowledge in the electromechanical sector, electric motors, transformers, electric pumps, etc., manages the agency and the distribution of Enamelled copper wire TERM200, SALD180, BOND200 (self-cementing) and other types of special copper wire, such as the one specially designed for inverter powered motors.

The quality of the enameled wires is guaranteed by modern control systems, which allow their use in the production of safety components: a guarantee that brings these products to be used in all sectors of the technologically advanced industry.

## INSULATING COATINGS AND RESINS

**MAFEL** manages the agency and distribution of **ELANTAS Europe**, member of **ALTANA** group, and for secondary insulation it can be the ideal partner for those who need, in addition to professionalism, a good knowledge of the entire supply chain, which determines the choice of products, systems and application technologies.

The wide product range offered by **ELANTAS Electrical Insulation** includes: air-drying varnishes and oven-drying **ELMOTHERM®**, (class F-H), water based varnishes **AQUANEL®**, single and two component impregnation resins **DOBECKAN®**, single and two component **EPOXYLITE®** resins for casting and potting





## INSULATING PAPERS

### DIELECTRIC INSULATING PAPERS

For electro-mechanical and electronic industry, available in reels / sheets / rolls. Tailored cuts.

Coupled NM and NMN based Nomex®, DM and DMD based on Polyester TNT, L/M based on 2/3 layer Polyester paper, Polyester Film, Mylar® Du Pont type A, Garfilm®, Kapton® HN, Nomex® paper, PSP Presspan, Diamond Paper.

### FAST DELIVERY AND CUSTOM CUTS



(Rolls in various sizes and thicknesses)

## RODS

### GLASSFIBER AND BEECH WOOD RODS

Adatte all'isolamento dei motori elettrici come chiusura della cava e nell'isolamento dei trasformatori. Nella versione in vetroresina sono disponibili semitonde, dogbone, angolari, in classe H 180°C.



## COMPOSITES MATERIALS

Composites insulating materials on boards such as bakelite and bakelite cloth, epoxy glass FR-4, FR-5 e GPO3.

### CUSTOM CUTS ACCORDING TO DRAWING



## PROCESSES

We carry out different processes on electrical insulating paper based on customer request: custom cuts, cut rolls, slot insulation, slot wedges, shaped items, phase insulators, die-cut.

Edging and indentation are also carried out on insulating paper.



(processes examples)



# ADHESIVE TAPES

We are at your disposal with a complete assortment of dielectric adhesives tapes for electromechanical applications and high performance electronics. UL approvals. Technical assistance, fast supplies, custom cuts from 3 mm (tolerance  $\pm$  mm.0,2).

Our products:

Polyester adhesive Film (PET)  
thermoset rubber, acrylic, silionic  
TNT Polyester, Polyester reinforced with glass fiber  
Glass cloth tape  
Aluminum or Copper  
Cellulose Paper  
Polyimide  
Teonex  
PTFE  
Nomex® Paper  
Kapton®



## SLEEVINGS



CUSTOM CUTS

Mafel Srl has a wide range of tubes and sleeves for dielectric / thermal protection, for electromechanical applications and household appliances, for automotive, railway, aeronautical sectors, steel industry, lighting sector etc ...

Dielectric strength from 1 to 10 Kv, thermal classes Y, A, B, F, H, C, UL approval, flame-retardant, self-extinguishing, Halogen-Free, RoHS Compliant sleeves.  
Glass fibre braided sleeves (1,5 - 2,5 - 3 - 4 - 7 - 10 Kv);  
Glass fibre braided sleeve with polyurethane varnish,  
Double polyurethane sleeves. Sleeves impregnated with water-based varnish, sleeves coated with silicone rubber.

Fireproof sleeves for high and very high temperatures, PVC 70 ° - HT 105 ° sleeves - self-extinguishing - UL.  
PVC anti-oil sleeves. Braided polyester sleeves.  
Polyolefin heat shrink tubing, thin-medium-strong thicknesses, with or without adhesive - heat shrink ratio 2: 1 - 3: 1 - 4: 1 UL.  
Halogen-Free and RoHS Compliant.

# SPECIAL CABLES

We offer single and multi-core cables, in thermal class F - H for electric motors applications, transformers, generators, wiring of heating appliances, lighting fixture appliances etc ...

In our online catalog you will find:

Cables made with ETFE fluorocarbon resins  
FEP PFA, Polyolefins (XLPE, XLPO), silicone cables, silicone fiberglass cables, Nomex® cables.  
Power supply cables for industrial equipment, electric tools, electric pumps and welders, Halogen-Free Cables. Cables made with fireproof materials resistant to high temperatures (-60 + 700 ° C).  
Pure Nickel and Cu Nk Cables.



CUSTOM CUTS AND TAILOR-MADE CABLING

## WINDING TAPES

These tapes are particularly suitable for taping / binding electrical windings, transformers and coils.

Depending on the mechanical and thermal resistance (up to 450°C), we offer: red striped cotton tape, green striped Makò tape, smooth and herringbone heat-shrink polyester tapes, Class C aramid fiber tapes (220°C), glass yarn (also available with amino-silane resins). Prepreg banding tape for H class electrical motor rotors.



## TIE CORDS

For manual tying and tying machines.  
For electric motors and transformers windings in thermal class F - H.

Available: Polyester, Raffia, Nylon, Aramid Class C(220°C), glass, waxed, semi-waxed and rough lanyards.

Available in various packaging:  
bobbins, truncated/conical bobbins, for manual and automatic tying.



## CABLE TIES AND WIRING ACCESSORIES

Polyimide Cable ties 6.6, U.V.rays resistant, colored, heat-resistant and self-extinguishing.

Nylon lace clamps are also available.





# SPARE PARTS FOR ELECTROMECHANICAL



(Terminal blocks)



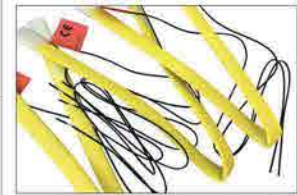
(Thermal protectors)



(capacitors)



(cable terminals and connectors)



(anticondensation heaters)

**TERMINAL BLOCKS** for electric motors, class F - H. Made in PMC e BMC, with brass or zinc-tropicalized iron pins. Available with 9-8-6-5-4-3-2 pins, brass or FeZn kit - sachets on request. UL approvals.

**CAPACITORS FOR ELECTRIC MOTORS**, used to start single-phase motors, electrolytic capacitors, electronic circuit breakers. Available with unipolar and bipolar cables, faston, tang.

**TERMINALS, CONNECTORS, TUBE TERMINALS**, able to satisfy the multiple needs of connection in an increasingly wide field of applications. Available: PVS, Halogen-Free, reinforced, anti-vibration, linked, pre-insulated cable terminals. Tube terminals can be pre-insulated, not insulated. Power terminals, head connectors, joints. Crimping tools, cable glands. UL approvals.

**BIMETALLIC THERMAL PROTECTORS**, temperature-sensitive, small size, available single, double and triple. Maximum mechanical strength, high performances. UL approvals. **PTC THERMISTORS** used to control temperature of electric motors and transformers windings.

**ANTICONDENSATION HEATERS** 110, 220 Volt AC. We also perform special versions on request, even at low voltage.

## ATTREZZATURE

Nel nostro catalogo online potrete trovare numerose attrezzature, tra cui:

- Dispenser manuali ed elettrici
- Spelafili elettrici
- Spelacavi
- Crogioli per saldatura
- Saldatori professionali
- Saldatrici
- Spezzonatrici per cavi e tubetti
- Taglierine per isolanti
- Provaindotti
- Connettori rapidi per morsettiere

Per altre attrezzature disponibili visitate il nostro sito: [www.mafel.it](http://www.mafel.it).



**SERVIZIO DI ASSISTENZA E RICAMBI**



**MAFEL<sup>®</sup>**

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