



### Film Sintering Enamel Coated Copper Wire For Motor Winding High Power

Model	Rectangular Conductor size	Round Conductor Diameter	Insulation structure	Elongation	Springback
	mm	mm			
(C)FMB/155(180)	Thickness: 0.80~5.60 Width: 2.00~16.00	2.50~5.00	Single layer, 50% overlap, insulation increase (double side)≤0.20 mm	≥26~38%	<4.5°
FMYFB/155(180, 200)			Single layer, 66% overlap, insulation increase (double side)≤0.30 mm		
MYFB/200(220, 240)			Single layer, 75% overlap, insulation increase ( double side)≤0.40 mm		
MYFBP/200(220, 240)			Double layer, 50% overlap of each layer, insulation increase ( double side)≤0.40 mm		

#### Description:

1, Film Sintering wire is widely used in high voltage, high power windings or high temperature and high humidity environment for it's good quality, such as thinner insulation layer, higher broken voltage, better flexibility of conductor, better water repellency and so on.

2, If the corona resistance film is used, the corona resistance, surge voltage resistance and heat dissipation capacity will be increased. This is used for variable frequency motor, traction motor and high voltage motor.

3, Film-backed mica tape polyimide film lapped wire and film-backed mica tape polyimide film sintered wire have good performance of corrosion resistant, corona resistant, water resistant and heat resistant. They are used on wind power generator windings.

Film-backed mica tape Polyimide film sintered round wire



Polyimide film sintered flat wire

polyimide film lapped wire

4, The copper conductor is made from high quality oxygen free copper rod with oxygen content less than 20 ppm, so the electric conductivity is more than 100% after annealing. The aluminum conductor is made from high quality aluminum rod, the electric conductivity is more than 62% after annealing.

5, All our compound insulation winding wires are type tested, routine tested and sample tested in accordance with NBT 31048-2014 and customer standards.

Applications:

- 1, high voltage, high power motor windings.
- 2, the motor windings in high temperature and high humidity environment.
- 3, the corona resistance films is used for variable frequency motor, traction motor and high voltage motor.
- 4, wind power generator windings.

Competitive Advantage:

1, We use the horizontal umerically controlled tiny pressure thermal cycling annealing furnace which obtains 7 national intellectual property patents to anneal copper wires. It can provide a uniform temperature and vacuum environment which effectively prevents the oxidation of copper wires and get copper wires with uniform performances.

2, The sintering and wrapping machines are made in Lukas Germany. It have high production efficiency because of double lapping and dual takeup. The wires are wrapped flat and have excellent adhesion.

Lukas Germany sintering machine.

Lukas Germany wrapping machine.

3, Our company has a great team of professional and technical personnel and high-quality production workers. So we have mature technology process and strong product development capability. Moreover, we have strict management system and improving the marketing system.

4, Our production environment is very clean by sealing the plant. Each channel is provided with an air shower door. We supervise and control the production environment by LPC-301 type laser dust particle counter according to the international standards of cleanliness class less than ISO7. So the film-wrapped sintered windings have excellent insulation properties.