



## 无锡统力电工有限公司

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**ENAMELLED FLAT WIRE**

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Product introduction

Enamelled flat wire has the characteristics of thin insulation layer、 high voltage resistance、 good flexibility、 bright and clean surface and so on, widely used in windings of distribution transformers、 all kinds of generators、 motors and all kinds of electrical equipments.

Select corona-resistant enamelled flat wire could improve winding's corona resistant ability and impact resistant of voltage ability. It suitable for use in windings of wind driven generators、 traction motors and variable frequency motors.

Toly Electric is specialized in manufacturing enamelled copper/aluminum flat wires. It adopts various kinds of technology to enamelling, combines Toly Electric many years accumulated quality control experience, our products overall indicator is in international leading level, it is the best choose of winding wires for various kinds of high-end motors and electric equipments.

Product type

- 120 class polyvinyl acetale enamelled flat wire
- 130 class polyester enamelled flat wire
- 180 class polyesterimide enamelled flat wire
- 200 class modified polyesterimide enamelled flat wire
- 220 class polyamide-imide enamelled flat wire
- 240 class aromatic polyimide enamelled flat wire
- Corona-resistant enamelled flat wire

Above products according to IEC60317、 GB/T7095 or according customers' standard.



Technical parameters

- Conductor size
- Recommended conductor size: thickness 0.80 ~ 5.60mm, width 2.00 ~ 18.00mm
  - Recommended enamel increase: 0.08 ~ 0.15mm

Material Standard

- Conductor
- The copper conductor is made from high quality oxygen free copper rod, oxygen content less than 20 ppm and electric conductivity more than 100% after annealing
  - The aluminum conductor is made from high quality aluminum rod, the electric conductivity more than 62% after annealing
- Insulation material
- High quality insulation varnish for enamelled winding wire from domestic and foreign market
  - Voltates ® Corona-resistant insulation varnish

Product Property

Property of enamelled flat wire

Order	Property	Technical requirement		Test method
1	Elongation Copper Aluminum	≥40% ≥20%		GB/T 4074.3
2	Breakdown voltage	enamel thickness 0.08 ~ 0.11mm > 2000V	enamel thickness 0.12 ~ 0.15mm > 3000V	GB/T 4074.5

Product Packing

Recommended bobbin specification of enamelled flat wire

Size	Side plate	Barrel	Out width	Inner width	Center hole	Load
500#	500	250	290	250	40	150kg
600#	600	300	240	200	45	180kg
720#	720	350	290	250	50	280kg

