

**ENAMELLED ROUND WIRE**

**无锡统力电工股份有限公司**

WUXI TOLY ELECTRIC WORKS CO., LTD.

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## Product introduction

Enamelled round 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, of generators, various kinds of motors and electrical equipments.

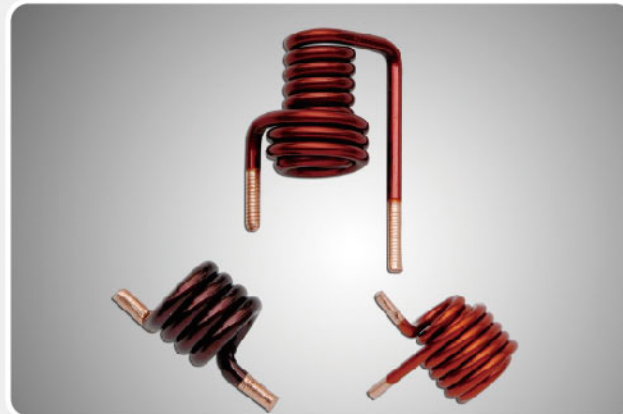
Select corona-resistant enamelled round wire could improve winding's corona resistant ability and impact resistant of voltage ability. It suitable for use in windings of wind driven generators, traction and variable frequency motors.

Toly Electric is specialized in manufacturing enamelled copper/aluminum round wires. It adopts continuous drawing and enamelling equipments to manufacture, combines Toly Electric many years accumulated technical control experience, products' characteristics and surface quality are continuous stabilization, it is the best selection of winding wires for various kinds of high-end motors and electric equipments.

## Product type

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

We could manufacture above products according to IEC60317, GB/T6109, JIS C3202, NEMA MW 1000 or according to customers' other purchase standard.



## Technical parameters

### Recommended conductor size

- Recommended copper round wire size: diameter 0.63~5.00 mm
- Recommended aluminum round wire size: diameter 1.00~5.00 mm
- Recommended enamel increase: thin enamel, normal enamel or thick enamel

## 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

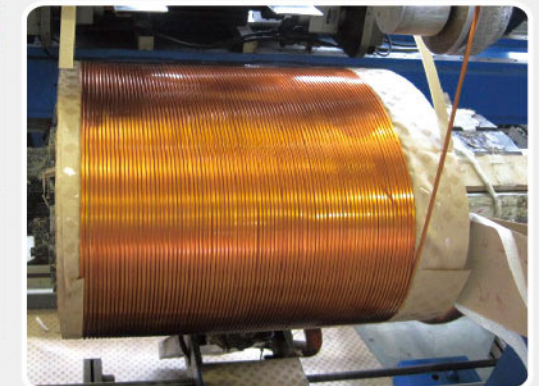
### Insulation material

- High quality insulation varnish for enamelled winding wire from domestic and foreign market
- Voltates® Corona-resistant insulation varnish

## Product Property

Property of enamelled round wire

Order	property	Technical requirement			Test method
1	Elongation Copper Aluminum	≥27 ~ 36% ≥20			GB/T 4074.3
2	Breakdown voltage 0.63 ~ 2.50 mm > 2.50 mm	Grade1 > 3000V	Grade2 > 5000V	Grade3 > 8000V	GB/T 4074.5
		> 1500V	> 3000V	> 4500V	



## Product Packing

Recommended bobbin specification of enamelled round wire

Size	Side plate	Barrel	Out width	Inner width	Center hole	Load
PT 90	315	200	500	425	100	90kg
PT 200	400	250	630	530	100	200kg

