



## 200°C Corona-resistance Enamelled rectangular copper winding wires BHAIC in general heat resistance

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: PEWSC
- Certification: UL,ROHS
- Model Number: BHAIC
- Minimum Order Quantity: The MOQ Varies According to the Size of the Specification
- Price: Copper Price plus Processing Fee plus Freight
- Packaging Details: Carton
- Delivery Time: 3-5 Work Days
- Payment Terms: T/T 100% Payment before Shipment
- Supply Ability: Delivery 10-15 Days after Next Order



### Product Specification

- Color Option: Natural Red
- Conductor Type: Rectangular
- Temperature Rating: 200°C
- Conductor Material: Oxygen Free Copper
- Insulation Type: Polyester, Polyurethane, Polyimide, Etc.
- Enamel Film Flexibility: Widing With 1 Times Thickness
- Insulation Material: Enameled
- Customization: Available
- Size: Customizable



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## Product Description

Enamelled flat wire, also known as rectangular enamelled wire, is a type of electrical conductor with a rectangular cross-section, coated with an insulating enamel layer. It is widely used in various electrical and electronic applications due to its unique characteristics. Here are the main features of enamelled flat wire:

### 1. Special Geometric Shape

**Rectangular Cross - Section:** Unlike round wires, it has a flat and rectangular shape, which allows for more efficient space utilization in winding applications.

**Higher Fill Factor:** The flat design enables tighter packing in coils, increasing the number of turns per unit area and improving the power density of electrical devices (e.g., transformers, motors, and generators).

### 2. Excellent Insulation Performance

**Enamel Coating:** The wire is coated with a thin, uniform layer of enamel (such as polyurethane, polyester, or polyimide), which provides reliable electrical insulation.

### 3. Space - Saving and Compact Design

**Reduced Volume:** The flat shape helps reduce the overall size and weight of electrical components, which is crucial for miniaturized electronics and high - density applications.

**Improved Heat Dissipation:** The larger surface area of the flat wire facilitates better heat dissipation, enhancing the thermal management of devices.

### 4. Versatility in Applications

**Widely Used in Motors:** Ideal for stator and rotor windings in electric motors, where space efficiency and high power output are essential.

**Transformers and Inductors:** Suitable for high - frequency transformers and inductors, minimizing core losses and improving energy efficiency.

**Consumer Electronics:** Used in compact devices like laptops, smartphones, and home appliances to save space and reduce weight.





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