High PDIV and ATF-Resistance Enamelled Rectangular Copper Winding Wire HEVW-240PF with Oxygen Free Copper Conductor

Our Product Introduction

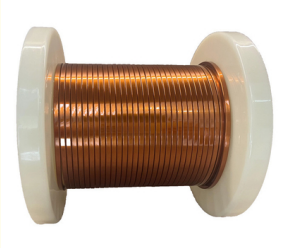
Basic Information

- Place of Origin: China
- Brand Name: PEWSC
- Certification: UL,ROHS
- Model Number: HEVW-240PF
- 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

- Conductor: Oxygen Free Copper
- Conductor Material: Copper
- Standard: IEC, NEMA, JIS, GB, Etc.
- Temperature Resistance: 240℃
- Shape: Flat
- Color Option: Natural Red Yellow
- Product Name: HEVW-240PF
- Sample: Free
- Highlight: **PDIV Rectangular Copper Winding Wire**, **ATF-Resistance Rectangular Copper Winding Wire** , **HEVW-240PF Rectangular Copper Winding Wire**

More Images



Our Product Introduction

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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. Mechanical Strength and Flexibility
Robust Structure: The wire maintains structural integrity during winding and handling, even in complex coil configurations.
Bendability: It can be bent or shaped without cracking the enamel coating, adapting to various winding patterns in compact devices.

3.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.

4.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.
Heat Resistance: The enamel can withstand high temperatures (ranging from 130°C to 240°C, depending on the type), ensuring stability in high - heat environments.
Mechanical Protection: The coating also resists abrasion, moisture, and chemical corrosion, extending the wire's service life.

5.Customization Options
Variable Dimensions: Available in various aspect ratios (width to thickness) to meet specific design requirements.
Coating Thickness: The enamel layer can be adjusted for different voltage ratings and insulation needs.

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