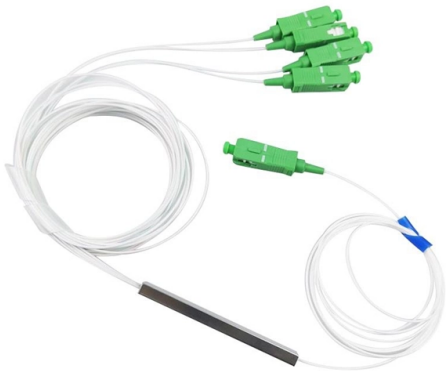
Small busbar terminal copper rod type



Overview

CM1-15 single-layer copper rod type high-voltage small busbar CM1-15 single-layer copper rod type high-voltage small busbar terminal busbar frame 20 positi.

Key Takeaways

High-conductivity copper rods, such as ETP (C11000) or Oxygen-Free (OF) copper, are ideal for small busbar terminals due to their excellent electrical conductivity and compliance with international standards.

Material Selection

For small busbar terminals, high-purity copper is recommended to ensure minimal resistance and efficient current flow. Common options include: Electrolytic Tough Pitch (ETP, C11000): Industry standard for electrical conductivity, offering approximately 101% IACS (International Annealed Copper Standard) conductivity.

Oxygen-

Free (OF) Copper: Provides slightly higher purity and conductivity, suitable for sensitive or high-performance applications. Both types are available in round rods, square bars, or flat busbars, allowing flexibility depending on terminal design and space constraints.

Standards and Compliance



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Copper rods for electrical use typically meet international standards such as JIS, BS EN, DIN EN, ASTM, AS/NZS, ensuring consistent quality and performance. Using certified copper ensures traceability and reliability in electrical installations. Sizing and InstallationDiameter/Thickness: Choose a rod size that matches the current-carrying requirements of your small busbar terminals.

Current capacity can be calculated using standard busbar formulas or manufacturer guidelines. Flexibility: Copper rods can be bent, drilled, or tinned to fit terminal connections, especially in tight spaces. Insulation and Protection: For safety, rods can be wrapped with insulating paper or plastic, and optional covers can be used to prevent accidental contact.

Suppliers

Several suppliers provide high-quality copper rods suitable for small busbar terminals: Oriental Copper: Offers ETP and OF copper rods with 99. 99% purity, meeting international standards. Farmers Copper Ltd.: Stocks C11000 ETP copper rods and busbars, with options for bending, drilling, and plating to specification.

McMaster-Carr: Provides a wide range of copper busbars and rods with material certificates for traceability.

Practical Tips

Ensure the rod diameter is sufficient for the expected current to avoid overheating. Use proper connectors and torque specifications to maintain low-resistance connections. Consider surface treatment (tinning or plating) to reduce oxidation and improve long-term conductivity.

By selecting high-conductivity copper rods and following proper installation practices, small busbar terminals can achieve reliable performance and long-term durability in electrical systems.

Article Content

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CM1-15 single-layer copper rod type high-voltage small busbar terminal busbar frame 20 position fixed quick connection terminal

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Common materials used are copper, aluminum, and a variety of copper alloys. The material chosen, the mechanical constraints and the electrical performance for the specific application determine the

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Tinned Copper Busbars Details Tinned busbars are manufactured by state-of-the-art Electrolytic Tinning process, using a computerized system, which provides the

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Copper for Busbars

Terminals, switch contacts and similar parts are nearly always produced from copper or a copper alloy. The use of copper for the busbars to which these parts are connected therefore avoids contacts

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