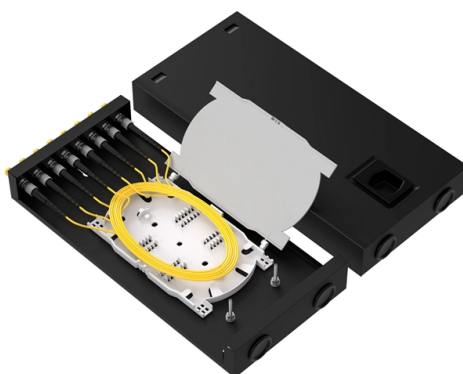


Price of copper rods for small busbars in high-voltage switchgear



Overview

Choose from our selection of copper bus bars, including over 650 products in a wide range of styles and sizes.

Key Takeaways

Copper rods for small busbars in high-voltage switchgear typically range from \$14 to \$27 per kg, depending on grade, size, and surface treatment. Market Pricing

The price of copper busbars and rods is influenced by copper purity, rod dimensions, and processing requirements. For small busbars used in high-voltage switchgear, high-conductivity copper (C11000 ETP or Oxygen-Free Copper CU-OF) is commonly used, often in half-hard temper to balance mechanical strength and conductivity . Tinned or coated rods, which prevent oxidation and improve solderability, may add a small premium to the base copper price . Current market listings indicate that busbars and rods suitable for small-scale switchgear applications are priced between \$14.99 and \$16.99 per kg for mid-range quality, while premium tinned or marine-grade options can reach \$27 per kg . Budget options may be available around \$7.69 to \$13.99 per kg, but these are typically for lower amperage or less critical applications .

Factors Affecting Cost

- Copper Grade: Pure copper (C11000) is standard for high-voltage applications, while alloys or lower-purity copper may reduce cost but also conductivity .

- **Rod Dimensions:** Larger cross-sectional areas or longer rods increase material usage and cost. Small busbars require less material, so prices are proportionally lower .
- **Surface Treatment:** Tinning, silver plating, or zinc coating improves durability and corrosion resistance, especially in humid or industrial environments, adding to the price .
- **Processing Complexity:** Bending, drilling, or custom shaping for switchgear panels can increase the final cost .

Practical Considerations

- For high-voltage switchgear, ensure rods meet international standards such as JIS H 3140:2012 or BS EN 13601:2013 for mechanical and electrical performance .
- Tinned copper rods are recommended for long-term reliability and reduced maintenance in indoor or outdoor switchgear .
- Bulk orders may reduce per-kg cost, but prices fluctuate with global copper market trends . In summary, for small busbars in high-voltage switchgear, expect to pay \$14-\$17 per kg for standard high-conductivity copper rods, with premium tinned or specialized rods reaching \$25-\$27 per kg, depending on size, coating, and compliance with international standards .

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

