

Prices of Fire-Resistant Busbars and Ordinary Busbars



Overview

Grounding Bus Bar, Pattern: CC, Dimensions: 4" x 12" x 1/4", Material: Copper, Includes: Insulator, SS Brackets, SS Mounting Bolts.

Key Takeaways

Fireproof busbars (cast resin) are generally more expensive than ordinary copper or aluminum busbars due to their specialized materials, insulation, and fire-resistant properties.

Ordinary busbars are typically made from copper or aluminum, with copper being more expensive due to its higher conductivity and durability, while aluminum offers a lighter and lower-cost alternative. Prices vary depending on:

- Material: Copper > Aluminum
- Size and cross-section: Larger cross-sections require more material, increasing cost
- Type: Solid, flexible, comb, or insulated busbars; insulated busbars cost more due to additional manufacturing complexity



- **Current rating:** Higher amperage busbars require thicker or wider bars, raising the price. For example, standard copper busbars used in industrial switchgear or panel boards are priced based on length, thickness, and current capacity, with typical retail or wholesale prices ranging from tens to hundreds of dollars per meter depending on specifications.

Fireproof Busbars

Fireproof busbars, such as cast resin busbars, are designed for high safety and fire resistance. They are made from epoxy resin combined with silicon minerals to withstand high temperatures and mechanical stress. Key factors affecting their cost include:

- **Material composition:** Specialized resins and minerals increase manufacturing costs.
- **Current rating:** Fireproof busbars often support 630A to 6300A, requiring robust construction.
- **IP protection and environmental resistance:** Many are rated IP68 for outdoor or harsh environments, adding to cost.
- **Installation and safety features:** Fireproof busbars reduce fire risk and simplify installation in critical areas like chemical plants, tunnels, or harbors. Due to these factors, fireproof busbars can cost several times more than ordinary copper or aluminum busbars, though they provide enhanced safety, durability, and compliance with fire regulations.

Summary

- **Ordinary busbars:** Lower cost, suitable for standard industrial or commercial applications; price depends on material, size, and insulation.
- **Fireproof busbars:** Higher cost due to specialized materials, fire resistance, and environmental protection; ideal for high-risk or critical installations. When budgeting, consider long-term savings from reduced fire risk, maintenance, and downtime, which can justify the higher upfront cost of fireproof busbars.

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