

Fireproof cable tray specifications and prices



Overview

A practical specification guide for choosing fire resistant cable tray systems in commercial and industrial electrical projects.

Key Takeaways

Fireproof cable trays are designed to protect electrical cables from fire, with ratings up to 60 minutes, using materials like steel or fire-resistant boards, and prices vary by size, load capacity, and manufacturer.

Specifications

1. Material and Construction

- Fireproof cable trays are typically made from pre-galvanized or hot-dip galvanized steel, or incorporate fire-resistant boards as a core protective layer .
- Fire-resistant boards are non-combustible, high-temperature resistant, and 5-12 mm thick, providing insulation and flame protection .
- Perforated designs allow for ventilation and easy cable fastening, while arc-shaped trays accommodate curved installations and reduce cable stress .

2. Fire Resistance Ratings

- Common fire ratings include 30, 60, and 90 minutes, tested according to standards like DIN 4102-12 .

- N1 rating indicates 60 minutes of fire resistance, suitable for industrial and commercial applications .

3. Dimensions and Load Capacity

- Standard tray lengths: 3 meters
- Widths: 100 mm, 200 mm, 300 mm, 400 mm
- Load ratings: 10 kg/m on a 1.65-meter span, with support systems compatible with 10 mm threaded rods .
- Arc-shaped trays improve installation efficiency by over 30% compared to traditional trays .

4. Applications

- Suitable for low and high voltage cables in construction, power, oil, gas, petrochemical, rail, and utilities .
- Ideal for hospitals, data centers, airports, high-rise buildings, and offshore installations .

Pricing

- Prices vary depending on material, size, fire rating, and manufacturer.
- Pre-galvanized steel trays (60x100x3000 mm) typically start around \$50-\$70 per tray, while fire-resistant board trays with N1 rating can range from \$120-\$250 per tray depending on thickness and customization .
- Arc-shaped or custom-colored trays may incur additional costs due to prefabrication and aesthetic features .

Installation and Accessories

- Recommended accessories include cable cleats to maintain cable integrity during fire events .
- Trays can be installed along ceilings or walls, with reduced need for on-site cutting or welding, improving safety and efficiency .

Fireproof cable trays are a critical component for fire safety in electrical installations, and selecting the right tray involves balancing fire rating, load capacity, dimensions, and cost according to project requirements.

Article Content

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A practical specification guide for choosing fire resistant cable tray systems in commercial and industrial electrical projects.

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2026 Top Fireproof Cable Tray Buy Wholesale Price Guide for Buyers

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