Price of cable trays for cleanrooms



Overview

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Key Takeaways

Cleanroom cable trays typically range from $50 to $500 per meter, depending on material, design, and certification requirements.

Factors Affecting Price

Material: Stainless steel (304L or 316L) is standard for cleanrooms due to corrosion resistance and hygiene compliance. 316L is more expensive than 304L because of higher corrosion resistance, especially in chemical-intensive environments. Powder-coated or polymer-coated trays may be slightly cheaper but are less common in high-class cleanrooms.

Tray Type and Design: Wire mesh trays: Open design, easy to clean, moderate cost. Ladder trays: Provide strong support for heavy cables, slightly higher cost. Basket trays: Flexible and modular, often mid-range in price.

Certifications and Compliance: Trays must meet ISO 14644, GMP, or FDA standards for cleanroom use. Certified trays are more expensive due to testing, documentation, and traceability requirements. Size and Load Capacity: Wider trays or those designed to carry heavier cable loads cost more.

Custom dimensions or modular systems with integrated fire suppression or monitoring features increase the price. Installation Complexity: Trays with longer bracket spacing or modular, tool-less assembly systems can reduce installation costs, but initial material costs may be higher.

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Typical Price Ranges

Basic stainless steel wire mesh tray: $50–$120 per meterLadder or basket stainless steel tray: $120–$250 per meterHigh-end, electropolished 316L trays with certifications: $250–$500 per meter These prices are indicative and can vary based on supplier, region, and order volume. Bulk orders or sourcing from Asia may reduce costs, while premium certified suppliers in North America or Europe may charge more.

Recommendations

Select material based on cleanroom class: ISO Class 5–8 typically requires 304 or 316 stainless steel. Verify certifications: Ensure trays come with GMP, ISO 14644, or FDA compliance documentation. Consider long-term maintenance: Open, smooth designs reduce cleaning time and costs.

Request sample testing: Check surface integrity, load capacity, and cleanability before bulk purchase. By considering these factors, you can balance initial cost with long-term operational efficiency and regulatory compliance in cleanroom environments.

Article Content

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How to Get Quick and Accurate Cable Tray Pricing

Getting cable tray pricing can feel tricky, right? Are you worried about overpaying or getting a quote that doesn''t quite fit your project? Whether you''re planning a big new build,

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Ladder Type Cable Trays for Cleanroom and Pharmaceutical

Ladder-type cable trays are key equipment in industries and commercial places due to their efficiency in applications where cleanliness and safety are essential, such as cleanrooms and

Cable Entry Systems for the Use in Cleanrooms

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

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