

Price of Vertical Cable Trays for Low Voltage Electrical Shafts

Article Overview

Vertical cable trays for low voltage shafts typically range from \$20 to \$150 per meter, depending on material, load capacity, and customization.

Overview

Vertical cable trays are essential for organizing and supporting cables in multi-level buildings and industrial facilities, particularly in low voltage (LV) electrical shafts. They provide safe routing, reduce clutter, improve airflow, and simplify maintenance . Common materials include:

- o Galvanized steel: High strength, durable, corrosion-resistant, suitable for heavy loads .
- o Aluminum: Lightweight, corrosion-resistant, ideal for moderate loads and coastal environments .
- o Fiberglass-reinforced polymer (GRP): Non-conductive, chemical-resistant, zero-halogen, ideal for LV applications in harsh or high-safety environments .

Price Factors

The cost of vertical cable trays depends on several factors:

- o Material: Steel trays are generally less expensive than GRP or specialized aluminum trays. GRP trays, like CABSYS, offer higher corrosion resistance and longer lifespan, which increases the price .
- o Tray Type: Solid base, slotted, or ladder-style trays affect cost. Open-grid or perforated designs may be slightly cheaper due to less material usage .
- o Load Capacity: Heavy-duty trays designed to support multiple LV cables or future expansion are more expensive.
- o Customization: Special lengths, bends, risers, or accessories (tees, reducers, couplers) add to the total cost .
- o Finish and Coating: Galvanized or painted steel trays resist corrosion but may cost more than untreated steel .

Estimated Price Range

- o Basic steel vertical trays: \$20-\$50 per meter
- o Aluminum trays: \$40-\$80 per meter
- o GRP/FRP trays for LV shafts: \$80-\$150 per meter, depending on load rating and accessories

Additional Considerations

- o Installation costs: Labor, supports, and fasteners can add 20-40% to the material cost.

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- o Compliance: Ensure trays meet local standards (IEC, DIN EN 61537, or NEC) for LV installations .
- o Maintenance and lifespan: GRP trays offer longer service life and lower maintenance, which may justify higher upfront costs . For precise pricing, it is recommended to contact suppliers directly such as Bahra Electric, ABB, or CABSYS distributors, as prices vary by region, quantity, and project specifications .

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High Voltage cables are always laid on separate cable trays which are at least 30 cm from the Low Voltage cables and at least 80 cm

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