

How to make and price cable trays

Article Overview

Cable trays are manufactured from materials like steel, aluminum, or fiberglass, with pricing influenced by material, type, size, finish, load capacity, and installation requirements.

Making Cable Trays

Material Selection: Choose the appropriate material based on load, environment, and durability needs. Common options include:

- o Steel: Strong and cost-effective, suitable for general indoor use. Can be pre-galvanized (PG) or hot-dip galvanized (HDG) for corrosion resistance .
- o Aluminum: Lightweight, corrosion-resistant, ideal for outdoor or coastal environments .
- o Fiberglass (FRP): High corrosion resistance, suitable for chemical plants or aggressive environments .
- o Stainless Steel: Premium option for hygienic or highly corrosive areas .

Tray Types: Decide the design based on cable type and weight:

- o Ladder trays: Support heavy cables, allow ventilation, more expensive .
- o Perforated trays: Moderate weight support, cost-effective .
- o Wire mesh/basket trays: Lightweight, easy to cut and install, ideal for data cables .

Fabrication Process: Cutting, bending, welding, and finishing are standard steps. Accessories like bends, reducers, connectors, and covers are added to complete the system . Finishes such as powder coating or galvanization improve durability and environmental resistance .

Pricing Cable Trays

Factors Affecting Price:

- o Material cost: Steel is cheapest, aluminum and FRP are higher, stainless steel is the most expensive .
- o Tray size and load capacity: Wider or deeper trays and heavy-duty designs cost more .
- o Finish and coating: HDG or powder-coated trays increase upfront cost but improve longevity .
- o Quantity: Bulk orders reduce unit cost .
- o Accessories and installation: Bends, supports, brackets, and labor add to total cost .
- o Environmental requirements: Corrosion resistance, fire ratings, or explosion-proof features increase price .

Typical Price Ranges (per meter):



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- o Steel trays: \$5-\$25 per meter .
- o Aluminum trays: \$6-\$30 per meter .
- o FRP trays: \$10-\$50 per meter .
- o Wire mesh trays: \$2-\$25 per meter depending on size and finish .

Cost-Saving Tips:

- o Use perforated trays instead of ladder trays if weight is not critical to save 15% or more .
- o Consider bulk purchasing and modular designs to reduce labor and installation costs .
- o Factor in long-term durability to avoid frequent replacements, which can offset higher initial costs .

By carefully selecting materials, tray types, and finishes, and accounting for installation and environmental factors, you can accurately price cable trays for both small and large-scale projects while ensuring durability and efficiency.

Use this cable tray sizing calculator to check fill %, select tray size, and comply with IEC

Cable Tray Systems Guide HUBBELL Hubbell Wiring Device-Kellems and Hubbell Premise Wiring are divisions of Hubbell

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

Learn how to get quick and accurate cable tray pricing for your projects. This guide covers new builds, renovations,

Fast installation with dependable support. Everything you need to build a cable management system,

Cable tray is considered to be a system. It must provide continuous support for cables, and the electrical continuity of the cable tray

Discover the detailed process on how to produce cable trays, covering everything from

Compare cable tray costs by type, material, and installation. Find the most cost-effective option for your project in this

The document provides a comprehensive breakdown of cost estimation for cable trays, which are structural systems used to support



How to make and price cable trays

Bonn Group is a leading cable tray manufacturer & supplier in UAE. Offering durable GI cable trays, cable tray sizes & types, cable

When evaluating the cable tray installation cost per meter, several critical factors need to be considered. These

Cable tray pricing depends on materials, coatings, size, supplier margins, and order

Cable tray Manufacturing and installation services Cable Tray Accessories should be manufactured as per

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