

Article Overview

Hand-bendable and modular wall-mounted cable trays allow flexible routing along irregular surfaces while maintaining NEC compliance and cable safety.

Flexible Wall-Mounted Options

For irregular or non-linear wall installations, hand-bendable cable trays are ideal. The Snake Tray 501 Series features integrated mounting rings along the center spine, allowing the tray to attach directly to walls without additional brackets. Its patented hand-bendable design enables custom curves and angles without fabrication, making it suitable for tight or irregular spaces, while maintaining mechanical and electrical bonding in a single connection. Wire mesh trays, such as Cablofil(R), offer another flexible solution. These trays can be field-cut and bent to accommodate changes in level or direction. Accessories like 90-degree bend kits, T-bend kits, and radius dropouts allow precise routing around corners or obstacles, while maintaining proper cable support and separation.

Installation Considerations

When installing irregular wall-mounted trays, follow NEC 392 guidelines:

- o Maintain at least 12 inches of vertical clearance above trays for access and maintenance.
- o Ensure proper support spacing according to manufacturer specifications, typically every 6-10 feet for standard trays. Heavy-duty or long-span trays may require supports up to 20 feet apart.
- o Use tray-rated cables (Type TC or MC) and separate high-power from low-power cables to prevent electromagnetic interference.
- o For outdoor or sunlight-exposed installations, use UV-resistant ties and expansion splice plates to accommodate thermal expansion.
- o Avoid installation in hoistways or enclosed spaces; trays must remain accessible for maintenance.

Material and Design Options

- o Aluminum trays: Lightweight, corrosion-resistant, suitable for most indoor and outdoor applications.
- o Steel trays: Durable for heavy-duty use, ideal for industrial environments.
- o FRP (fiber-reinforced plastic): Corrosion-resistant, suitable for chemical or high-moisture environments.
- o Ladder, solid-bottom, or ventilated trough designs: Ladder trays allow better airflow for heat dissipation, solid-bottom trays provide EMI shielding, and ventilated troughs support smaller cables while maintaining airflow.

Practical Tips

Irregular wall-mounted cable trays

- o Use pre-formed bends and fittings to reduce installation time and maintain structural integrity .
- o Consider nesting trays for compact shipping and storage when planning complex layouts .
- o Allocate 20-50% of tray capacity for future expansion to avoid costly retrofits . By selecting hand-bendable or modular wall-mounted trays and following NEC-compliant installation practices, you can efficiently manage cables along irregular walls while ensuring safety, accessibility, and long-term reliability .

Wall Snake tray is made for linear installs where space is at a premium. 501 series trays are made to be attached to the wall without

Attaches tray up to 4" wide to walls, Cabinets or machinery. Fold-over tabs secures tray without additional hardware. Slotted

Cable tray installed in a hazardous location must contain only those cables that are appropriate for this type of environment as

SNAKE TRAY CABLE MANAGEMENT SOLUTIONS Hand Bendable Cable Trays for Under Floors, Overhead, and Walls 101 Series

Whether using a wire mesh basket or electrical cable tray, both can be mounted using the correct brackets, hangers,

Our cable trays are produced in fit for purpose materials like stainless steel, galvanized, aluminium and

The 501 Series Wall Mount Cable Tray directly attaches to walls without brackets using integrated mounting rings located along the

Wall-mounted installation involves attaching the cable tray to the walls using brackets, supports, or hangers, suitable

Discover efficient cable tray support structures for optimal cable management. Learn about

These trays mount on walls, overhead, or under floors in whole-facility installations, and they're ideal for hiding cable in spaces

Learn how to install a cable tray on a wall with this comprehensive guide. Step-by-step

Cable tray is also popular as an option for forward project planning: It is much easier to lay new cables onto a tray system as the

Irregular wall-mounted cable trays

Cable tray systems are the perfect solution for running large quantities of power or data cables overhead or under-floor. Also known

Hey everyone need some help with the below, I've been given a wall-mounted cable tray to extend, but I'm running

Super Sturdy Under Table Cable Management - Black Cable Organizer. This product has sustainability features recognized by

Discover efficient methods for installing cable trays to organize power, data, and security cables. Explore wall, ceiling,

Web: <https://www.morwarreconst.co.za>

