

# How to install a fiber optic cable tray cabinet

## Article Overview

Proper installation of fiber optic cable tray cabinets requires secure mounting, correct alignment, and adequate support to protect cables and ensure system reliability.

## Planning and Preparation

Before installation, assess the environment and determine the layout of trays and cabinets. Consider wall or ceiling mounting, potential expansions, and cable routing paths. Ensure all materials, including trays, brackets, screws, and fasteners, are compatible with the fiber optic system and rated for the load and environment . Plan for adequate spacing between trays and cabinets to allow for maintenance and airflow.

### Mounting the Cable Tray Base

- o Mark the mounting points on the wall or support structure according to the tray dimensions.
- o Drill holes for screws or bolts, ensuring alignment with the tray's fixture points. For flexible fiber installation, U-shaped input holes may need to be drilled as pre-outlined in the tray base .
- o Hang the tray base on the wall or support brackets and secure it firmly using screws or bolts. Ensure the tray is level and stable before proceeding .

### Securing Fiber Cables

- o Use the cable fixture holes in the tray to secure fiber cables with straps or plastic ties, keeping cables organized and preventing movement .
- o Install cables in a clockwise direction through the input holes to maintain proper bend radius and avoid stress on the fibers .
- o Ensure that connectors are properly connected to devices or transceivers and that protective covers are locked in place to prevent accidental disconnection .

### Support Structures

- o Use brackets, transitional fittings, and support channels to maintain tray alignment and prevent sagging, especially on long horizontal runs .
- o For ceiling or suspended installations, ensure hanger spacing meets manufacturer recommendations and that T-bolts or fasteners are fully seated in the tray channels .
- o Verify that all fasteners are tight and that the tray system is straight and adequately supported along its entire length .

### Tool and Safety Considerations

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- o Use appropriate hand tools such as drills, screwdrivers, and cable ties. Tool-free assembly options are available for some tray systems, which can reduce installation time .
- o Follow safety practices, including wearing protective equipment and avoiding using trays as walkways, which can damage cables or cause injury .

## Final Checks

- o Confirm that all trays, cabinets, and support structures are securely mounted and level.
- o Ensure cables are properly routed, with no sharp bends or pinch points.
- o Check that all covers, devices, and protective cases are locked and that the system is ready for operation . By following these steps, fiber optic cable tray cabinets can be installed safely and efficiently, providing reliable support and protection for your network infrastructure.

Watch an installation of fiber cable tray, and know clearly how to put those parts together.

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Our Fiber Cable Tray System is a comprehensive raceway solution for data center, enterprise, central office, and mobile switching

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