

Wall-mounted fiber optic connector



Overview

Wall-Mountable Connector Housing (WCH) | CorningCorning wall-mountable connector housing (WCH) product family offers enhanced innovative features that Fibe.

Key Takeaways

Wall-mounted fiber optic connectors provide secure, organized, and scalable solutions for terminating, splicing, and patching fiber cables in indoor and outdoor environments.Overview

Wall-mounted fiber optic enclosures, also known as connector housings or termination boxes, are designed to manage fiber connections efficiently while protecting cables from damage. They are commonly used in telecommunications rooms, enterprise networks, FTTH deployments, and industrial environments. These enclosures support interconnect or cross-connect functions between outside plant cables, riser cables, and opto-electronic equipment .

Key Features

- Capacity and Modularity: Enclosures come in various sizes, supporting 1 to 12 or more adapter plates, cassettes, or modules. Fiber capacities range from 12 to over 288 fibers depending on the model .
- Connector Compatibility: Most wall-mounted enclosures support LC, SC, ST, FC, and MPO/MTP connectors, with options for single-mode, multimode, and APC/UPC terminations .



- **Cable Management:** Integrated routing guides, strain-relief brackets, and splicing trays ensure organized fiber pathways and reduce stress on cables .
- **Security and Access:** Many units feature lockable doors, dual access panels for provider and customer sides, and removable inner doors for maintenance .
- **Construction:** Enclosures are typically made from rugged metal or aluminum with powder-coated finishes for durability, corrosion resistance, and indoor/outdoor suitability .
- **Installation Aids:** Pre-installed bubble levels, recessed mounting holes, and clear or tinted doors facilitate accurate and easy installation .

Common Types

- **Connector Housings (WCH):** Corning WCH series supports 2, 4, 6, or 12 panels, with clear doors for jumper visibility, removable strain-relief brackets, and compatibility with standard CCH cassettes .
- **Wall-Mount Splice/Termination Enclosures:** FIS and AFL offer enclosures for splicing and termination, configurable with adapter plates and splice trays, suitable for small to high-density fiber deployments .
- **Fiber Optic Wall Plates:** Compact solutions for single or duplex fiber connections, often integrated with keystone jacks for SC/APC or LC connectors, ideal for residential or office LAN applications .
- **High-Density Wall Cabinets:** OCC WTC series and FIS Titan enclosures provide scalable, modular solutions for enterprise or ISP environments, supporting multiple splice trays and adapter plates for large fiber counts .

Applications

- **Telecom and Data Centers:** Centralized fiber distribution and patching in cross-connects and IDF/MDF rooms.
- **FTTH and MDU Deployments:** Compact wall-mounted enclosures for residential or multi-tenant fiber distribution.
- **Industrial and Utility Networks:** Rugged enclosures for secure fiber termination in harsh environments.
- **Enterprise LANs:** Wall-mounted patch points for structured cabling and network expansion.

Selection Considerations

- **Fiber Count:** Choose an enclosure that accommodates current and future fiber needs.
- **Connector Type:** Ensure compatibility with LC, SC, ST, FC, or MPO connectors.
- **Indoor vs Outdoor:** Select enclosures with appropriate IP ratings and weatherproofing for outdoor use.

- **Access and Security:** Consider lockable doors and dual-access designs for controlled maintenance.
- **Cable Management:** Look for integrated routing guides, strain relief, and splice tray support to maintain fiber integrity. Wall-mounted fiber optic connectors provide a flexible, secure, and organized solution for managing fiber networks, supporting both low-density residential setups and high-density enterprise or industrial applications .

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Corning wall-mountable connector housing (WCH) product family offers enhanced innovative features that make installation and

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