12-core ODF patch panel structure



Overview

Patch Panel ODF 12 CoreThe Patch Panel ODF 12 Core is a compact and reliable fiber optic distribution frame designed for fiber termination, splicing, stora.

Key Takeaways

A 12-core ODF patch panel is a modular optical distribution frame designed to terminate, splice, and manage 12 optical fibers in a secure, organized, and rack- or wall-mounted unit. Core Structure and Components1. Frame and Housing: The 12-core ODF typically features a metal or cold-rolled steel housing with protective coating for durability and corrosion resistance.

It can be rack-mounted (usually 19-inch standard) or wall-mounted, depending on installation requirements. Rack-mounted units often have modular designs to allow flexibility for future expansion. 2.

Splice Tray and Drawer: Inside the ODF, there is a sliding or pull-out tray that houses the fiber splices. Each tray can be individually pulled out, allowing easy access for splicing, testing, and maintenance without disturbing other fibers. The trays are designed to secure and protect fiber pigtails and splices.

3. Fiber Termination and Adapters: The panel supports various adapter types such as SC, LC, ST, FC, or MTRJ, enabling connection to patch cords or other network devices. Each of the 12 fibers is terminated at an adapter port, providing a clear and organized interface for network connections.

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4. Cable Management: ODF panels include cable fixation points, routing guides, and protective channels to prevent fiber bending or damage. The design ensures organized distribution of fibers from the main cable to individual ports, reducing stress on the fibers and simplifying maintenance.

5.

Modular and Front-

Accessible Design: Most 12-core ODFs are modular, allowing integration of splicing, termination, and distribution in a single unit. The front-access design enables technicians to perform operations without opening the entire panel, improving efficiency and safety. 6.

Optional Features: Some models include slidable drawers with self-locking mechanisms, which prevent accidental drawer drops during operation. Others may have clear labeling for each port to facilitate troubleshooting and fiber identification.

Applications12-core OD

F patch panels are widely used in telecom networks, data centers, FTTH deployments, enterprise LAN/WAN, and broadband systems. They provide a secure, organized, and scalable solution for fiber optic cable termination, splicing, and distribution. In summary, a 12-core ODF patch panel combines modular splicing trays, adapter ports, cable management, and protective housing into a compact unit, ensuring efficient fiber distribution and easy maintenance in structured cabling systems.

Article Content

Patch Panel ODF 12 Core

The Patch Panel ODF 12 Core is a compact and reliable fiber optic distribution frame designed for fiber termination, splicing, storage, and distribution applications. It is suitable for FTTH deployments, ISP

Fiber Patch Panel vs ODF (2026 Guide) – Differences

This 2026 expert guide explains the functions, placement, structure, and application scenarios of ODFs and fiber patch panels-and includes a deep engineering FAQ

SJ-ODF-12 Fiber ODF, ODF 12 Core

SJ-ODF-12 fiber ODF, ODF 12 core is used to distribute the optical fibers from the distribution frame to the ends that have an optical connector such as patch panels, device and service termination

FS ODF-SC24-WPA Datasheet | FS

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ODF series indoor optical fiber distribution box is used in the terminal access link of FTTH system,It is a device that splices, distributes, and splits optical fibers and provides protection and management

19 Inch 12 Cores Fiber Optic Patch Panel

Fiber patch panels are termination units, which are designed to provide a secure, organized chamber for housing connectors and splice units. Fiber patch panels

ODF vs. Fiber Patch Panel: Key Differences Explained

Discover the key differences between ODF and fiber patch panels to build efficient, scalable, and well-managed fiber optic networks.

FTTH Wall Mounted Optical ODF

Standard Unit Structure: Standard unit dimensions, supports rack install or directly on the wall. Modular Design: Employs a 12-core ODF tray made

Optical Distribution Frames/Patch Panel

An optical Distribution Frame (ODF) or patch panel is the starting point for optical cables, most commonly found in rack cabinets in Head End (HE)/Central Office (CO)/Point of Presence

Fiber Patch Panel vs ODF : What''s the Differences

When setting up a fiber optic network, two critical pieces of equipment come into consideration: the fiber patch panel and the optical distribution frame (ODF). While these

ODF Fiber Optic Patch Panel, ODF Unit Box Manufacturer/Supplier

UnitekFiber, a professional manufacturer of fiber optic patch panel, can provide high quality rack mount fiber patch panel, wall mount fiber optic patch panel, sliding type ODF and fixed type ODF and so on.

ODF & Patch Panel

Modular design: The frame is comprised of optical distribution module, fiber splice tray module, rear horizontal fiber support groove. The distribution modules have the options of 72 cores and 96 core

12–144 Core Modular ODF Patch Panel –High-Density Rack Mount

This modular rack-mounted ODF patch panel supports 12–144 fiber cores, offering high-density, scalable fiber management for data centers and telecom networks.

1U Fiber Optic Patch Panel Rack Mount 12 Core Blank ODF With SC Connector

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Rack Mount ST 12 port, 1U Fiber Optic Terminal box/Fiber Optic Patch Panel 1. Box body is made of high quality cold-rolled steel material, and the surface of the inferior smooth electrostatic praying

12 cores Fiber Patch Panel Manufacturer, Supplier | Sopto

Sopto offer fiber patch panel in different size, such as 12cores-96cores ODF Unit Box, 12 cores fiber patch panel, 24 cores fiber patch panel, 96 cores 144cores FDU, 3U splitter rack etc.

12–96 Core Modular ODF Patch Panel – Rack-Mounted Solution

This rack-mounted modular ODF patch panel supports 12–96 fiber cores, providing flexible and efficient fiber termination for FTTH and telecom networks.

Customized 12 Port Fiber Optic Distribution Patch Panel

Details of 12 port ODF Slidable rack-mount fiber optic distribution frame is with the drawer for splicing, easy to withdraw the fibers when testing and distributing.

19 Inch 12 Cores Fiber Optic Patch Panel

Wall mount patch panel is more customized, it can be any structure and dimension. And the patch panels can be used for indoor or outdoor application. 12 core ODF

SC, LC, FC or ST 12 core

We are a SC, LC, FC or ST 12 core - 288 Cores Rack Mount Fiber Optic Patch Panel Unit Box 19 Inch Optical Distribution Frame OD Manufacturer. We supply

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