

48-core ODFFC fiber optic distribution frame



Overview

What is at your core? Optical distribution frames (ODFs) are an all-important network element at the heart of a fiber network.

Key Takeaways

A 48-core ODF is a high-density fiber optic distribution frame designed for splicing, termination, and distribution of up to 48 optical fibers in a compact, rack- or wall-mounted enclosure.

A 48-core Optical Distribution Frame (ODF) is used in fiber-optic networks to manage, connect, and distribute optical fibers from incoming and outgoing cables. It serves as a central point for fiber termination, splicing, and patching, ensuring organized routing and protection of fibers in data centers, central offices, or FTTH deployments .

Key Features

- Capacity: Supports up to 48 fibers, with options for modular expansion using 12-core cassettes or trays .
- Adapters: Typically equipped with SC/APC or SC/UPC adapters; angled physical contact (APC) adapters reduce back reflection and improve signal quality .
- Splicing and Termination: Integrated splice trays allow fusion splicing and secure fiber management, maintaining proper bend radius to prevent signal loss .

- **Mounting Options:** Can be mounted in standard 19" or 23" racks, or as wall-mounted enclosures with swing-out doors for easy access .
- **Material and Durability:** Anti-corrosion treatment and plastic or metal construction ensure long-term reliability in indoor environments .
- **Labeling and Management:** Front panel markings and clear routing paths simplify identification, maintenance, and network documentation .

Applications

- **FTTH (Fiber to the Home)** networks for subscriber loops .
- **LAN/WAN** and data center networks where high-density fiber management is required .
- **CATV** and telecom distribution systems for organized fiber routing and patching .

Advantages

- **Compact and high-density:** Saves space in racks or wall-mounted installations.
- **Flexible configuration:** Supports modular cassettes and various adapter types.
- **Enhanced signal quality:** APC adapters and proper bend-radius management reduce back reflection and signal loss.
- **Ease of maintenance:** Swing-out doors, labeled panels, and organized trays simplify fiber management and troubleshooting.

Example Products

- **AOA Tech ODF-E-48:** Integrated splicing and distribution with flexible installation and FTTH compatibility .
- **Fenxi SC/APC-48 Core ODF:** Medium-density solution with high return loss performance and rack compatibility .
- **Anteoptic 48-Core ODF:** High-density, rack-mountable frame with splice holders and modular adapter options .
- **BISMON 48-Core Wall-Mount ODF:** Indoor wall-mounted enclosure with swing-out doors and secure patching for up to 48 SC connections . A 48-core ODF is essential for efficient fiber network deployment, providing organized, secure, and scalable management of optical fibers while maintaining high signal integrity.

Article Content

ODF Fiber Optic Distribution Frame SC/APC-48 Core Solution

Product Overview The ODF Fiber Optic Distribution Frame SC/APC-48 core is a compact and reliable fiber management solution

ODF 48 Core Fiber Optic Distribution Frame

ODF 48 Core is a high-density fiber optic distribution frame designed to meet the ever-increasing demands of today's network

BISMON 48 Core ODF Fiber Optic Patch Panel Indoor Wall Mount

The ODF indoor wall mount fiber optic enclosure is designed to provide a distribution point to feed a high capacity of fiber optic

48-core ODF distribution unit

It is suitable for optical fiber wiring management in communication equipment rooms, data centers, and 5G BBU aggregation

SP-FDF-2U-48P Fiber Optic 48Core Simplex Fiber Distribution Frame

Product Description Fiber Optic 48Core Simplex Fiber Distribution Frame FDF can do 1U 2U 3U 4U patch panels, Applicable to

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

The fiber distribution frame has the characteristics of beautiful appearance, reasonable distribution, easy search, easy management,

ODF-48 12-144 Core Optic Distribution Frame

Features of ODF-48 12-114 Core Optic Distribution Frame Standard size, light weight and reasonable structure Splice tray inside

ODF 24 48 Port SC Optical Distribution Frame Unit Patch Panel

Description ODF optical distribution frame unit is used for the termination and distribution of backbone optical cable in the fiber

Fiber Optical Distribution Box

An optical distribution frame (ODF) is a frame used to provide cable interconnections between communication facilities, which can

optical fiber distribution frame ODF rack mount 12 24 48 96 144 core ...

Product Description optical fiber distribution frame ODF rack mount 12 24 48 96 144 core port ODF Rack-mount Fiber Optic

Fiber Optic Patch Panel | ODF Optical Distribution Frame (Rack

The Fiber Optic Patch Panel, often referred to technically as an ODF (Optical Distribution Frame) or Fiber Termination Panel, is the

48 port Outdoor Fiber Optic ODF/main Distribution Frame price

48 port Outdoor Fiber Optic ODF/main Distribution Frame price/Patch Panel (Copy) ODF with pigtails and adapters contain one

FlexCore Optical Distribution Frame Ordering Guide FBCB58-SA

What is at your core? Optical distribution frames (ODFs) are an all-important network element at the heart of a fiber network.

Optical Distribution Frame | Corning

The Corning® Optical Distribution Frame is optimized for high-density cross-connect applications. When fully loaded with EDGE 4U

48Port SC Fiber Optic ODF Unit

Product Description 48Cores ODF optical fiber distribution frame is standard 19 inch chassis, capacity 48Cores, It is high density, all

2U Rack Mount Fiber ODF Optical Distribution Frame Patch Panel 48

Explore the details, specifications and video of our 2U Rack Mount Fiber ODF Optical Distribution Frame Patch Panel, and order

Optical Distribution Frames (ODF) Supplier | Fiberinthebox

Buy high quality Optical Distribution Frames (ODF) with competitive price and worldwide delivery,we offer optical distribution frame in

Fiber Optic ODF

The optic distribution frame is usually used indoor and the ODF could be very big size frame or small size similar like the patch panel

Contact Us

Continue your research online:

Website: <https://coetzerinvestments.co.za>

Technical inquiry: <https://coetzerinvestments.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

