What is the full configuration of a 576 optical distribution box

Overview

FDH5000 cabinet with 576 ports, LC/APC, no splitters, dry dielectric flat ribbon, 100 ft stub, 144F feeder, 288F distribution, pad mount with 8 in riser.

Key Takeaways

A 576-port optical distribution box typically supports high-density fiber distribution with modular, pad-mountable, weather-resistant design, accommodating both LC and SC connectors and allowing flexible network expansion.

General Overview

A 576-port Optical Distribution Box (ODF/FDH) is designed for high-density fiber distribution in outdoor or outside plant (OSP) environments. These cabinets are suitable for FTTx networks, Multi-Dwelling Units (MDU), and Single-Family Units (SFU), providing secure, weather-tight housing for fiber interconnections and splicing.

Fiber Capacity and Connectors

Distribution Ports: 576 fiber adapters for subscriber connections. Feeder/Pass-Through Ports: Typically 48 feed or pass-through adapters. Connector Types: Supports LC/APC or SC/APC connectors, depending on the model.

Splice Capacity: Can store up to 576 splices, with modular options for expansion.

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

Modularity and Expansion

Stackable Design: Some models, like Corning OptiTect® HD, allow stacking of 288- or 576-fiber cabinets to defer capital investment until network growth requires more ports. Modular Cassettes: Supports field-installable SC APC or LC APC cassettes, enabling flexible feeder-to-distribution ratios and cross-connect configurations. Splitter Compatibility: Compatible with LS Series splitters or multiple splitter modules for incremental growth.

Physical and Environmental Features

Mounting Options: Pad-mountable or vault installation; some models include an 8-inch riser for pad mounting. Construction: Powder-coated aluminum or durable weather-resistant materials for outdoor use. Access: Dual front and rear doors with quarter-turn locks and padlock hasps for security.

Grounding: Equipped with grounding bus bars and multiple grounding studs. Installation: Designed for quick deployment, often installable by a single technician.

Network Applications

Use Cases: Ideal for FTTx, broadband distribution, and general network infrastructure applications. Flexibility: Supports pre-terminated and field-terminated fibers, allowing easy integration into existing networks. Scalability: Cabinets can grow from 288 to 576 or even 896 ports, depending on network demand.

Summary

A 576-port optical distribution box provides a high-density, modular, and secure solution for fiber distribution. Key features include LC/APC or SC/APC connectors, modular cassettes, splitter compatibility, pad-mountable design, and environmental protection, making it suitable for both current deployment and future network expansion.

Article Content

FD5M-576S00DDB5

FDH5000 cabinet with 576 ports, LC/APC, no splitters, dry dielectric flat ribbon, 100 ft stub, 144F feeder, 288F distribution, pad mount with 8 in riser.

AECTS0000000000000 | OptiTect® HD Series Cabinet 576 F,

The OptiTect HD series is now complete by offering a 288- and 576-fiber count option. The smaller fiber count offerings allow for smaller networks to utilize the high-density cabinet while continuing to focus

VEAPS40-1U4231U400 | LS Series Outdoor Cabinets 576 F 6 Pad

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

In this unique cabinet design, splitter parking and cable toning are simple, providing customers more flexibility and deployment options. The best-in-class fiber routing design allows for quick subscriber

576 Fiber Distribution Hub, 576 Fiber Distribution Cabinet

It is widely used to handle fiber optic cross connections and to accommodate passive optical splitters in PON FTTX networks, but can also be used for cross splicing applications or combinations of both.

Optic Distribution Cabinet, 576 Cores Fiber Distribution Hub

It is widely used to handle fiber optic cross connections and to accommodate passive optical splitters in PON FTTX networks, but can also be used for cross splicing applications or combinations of both.

SJ-ODF-04 576 Fibers ODF Cabinet

SJ-ODF-04 576 fibers ODF cabinet is a combination of two or more fiber optic line that are combined together to provide longer distance transmission and less fiber dispersion.

Fiber Distribution Hubs MDP EL 144/288 and MDP EL 288/576

The Fiber Distribution Hubs are designed to store up to 576/1,152 splices and to terminate up to 192/384 fibers with SC connectors or 384/768 fibers with LC connectors.

576 Cores Fiber Optical Connect Cabinet

The integrated optical fiber fusion module integrates adapter mounting, welding, and fiber storage. The adapter is designed to be snap-in and compatible with many different types of adapters such as

ODC-576B SMC Optical Distribution Cabinet

Tarluz provides full line of OCC from 96 core, 144 cores, 288 cores, 576 cores to 1152 cores; the material could be using high strength SMC or stainless steel, which makes it waterproof, dust proof

SJ-ODF-03 576 Cores ODF Fiber Optic

The fiber optic distribution frame is designed to distribute, transmit and route optical signals within the network it runs. These frames are offered in various types such as the modular frames and slide-in

belarusian-fiber-optic-distribution-cabinet-with-6-cores

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

21 Companies and suppliers for belarusian-fiber-optic-distribution-cabinet-with-6-cores Find wholesalers and contact them directly Leading B2B martketplace Find companies now!

ODC-576A Fiber Distribution Terminal FDT/OCC/ODC

The optical cross-connection Cabinet short for OCC, or some other place call it Optical Distribution Cabinet (ODC) or Fiber Distribution Terminal (FDT), is a device designed for indoor/outdoor cable

How to Use Fiber Distribution Box: A Comprehensive Guide

Consider future expansion needs when selecting box capacity Maintain proper fiber management from the beginning By following these guidelines, you''ll be able to successfully install,

Fiber Distribution Hub | Fiber Optic Cabinet | Multilink

Connector type Splitter module type Hybrid Splice Hub™ 19-Inch Fiber Optic Distribution Hub As the most adaptable fiber cabinet that we offer, the Hybrid Splice Hub™ features 144, 288 and 576 fiber

Support Home | Dell US

Support for all your needs, in one place. Sign in to get personalized help and access your registered devices, software and existing service requests.

ODF ODF-576 Optical Distribution Frame 720 Core 60 Tray Chassis

Q1. What is your company product? A: Our main product ranges Fusion Splicer,SFP+ Modules,GEPON OLT, GEPON XPON ONU, with good quality and factory direct price. Q2. Can I customized the

FTTH 576 core optical fiber cabinet SMC Optical Fiber Distribution ...

FTTH 576 core optical fiber cabinet SMC Optical Fiber Distribution cabinet 576 ODF cabinet outdoor Waterproof IP65.Made of SMC material, waterproof and corrosion resistant, support SC/FC/LC/ST

576/720 Cores Optical Fiber ODF

This document describes an indoor FTTH rack mounted optical fiber distribution frame. It can integrate fiber splicing, termination, adapters and connectors in a single unit to provide cable interconnections

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

Contact Us

Continue your research online:

Website: https://cjcconsultants.co.za
Technical inquiry: https://cjcconsultants.co.za/contact.html

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

© 2026 CJC FIBRE CONSULTANTS - All rights reserved