576 Fiber Optic Distribution Frame

Overview

Three-in-one 720-core fiber distribution frame 576-core odf optical. Powerful functionality: three networks in one, all-in-one cabinet solution! 576 Core.

Key Takeaways

A 576-core fiber optic distribution frame (ODF) is a high-density, 19-inch rack-mounted solution designed for efficient fiber management, splicing, and distribution in data centers and telecom networks.

Overview

A 576-core ODF is a high-capacity fiber distribution frame suitable for large-scale optical networks, including data centers, FTTH central offices, and multi-operator telecom environments. It supports both ribbon and non-ribbon fibers and allows for pre-terminated or field-spliced connections. These frames are typically 19-inch rack-mounted, with modular tray systems for flexible fiber management.

Key FeaturesHigh-Density Capacity: Supports up to 576 fiber cores, often with multiple splice trays (e.g., 12-48 trays) for organized fiber splicing and storage. Standards Compliance: Designed according to IEC, TIA/EIA, RoHS, and telecom standards for reliable performance and interoperability. Flexible Installation: Can be wall-mounted or back-mounted, allowing parallel layouts and easy integration into existing racks or large groups of ODFs.

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Fiber Protection: Fully enclosed structure with dust-proof design, maintaining proper fiber bend radius and preventing damage during operation. Adapter Compatibility: Supports SC, FC, and ST adapters, with angled connections (typically 30°) to protect fibers and improve safety during handling. Modular Design: Internal drawer trays integrate distribution and splicing, enabling easy expansion and maintenance.

Applications

Data Centers: High-density interconnections and fiber management for enterprise and hyperscale environments. Telecom Networks: Suitable for metro backbones, FTTH central offices, and multi-operator joint construction projects. Industrial Automation: Reliable optical distribution for control systems and power generation facilities.

Broadcast and Media: Integration of multiple network operators and broadcast TV signals in a single cabinet.

Advantages

Space Efficiency: Maximizes fiber connections per rack unit, reducing footprint in data centers. Scalability: Modular trays and adapter slots allow incremental expansion as network demands grow. Durability: Electrostatic-sprayed steel frame ensures long-term reliability and aesthetic appearance.

Ease of Maintenance: Front-access design allows all operations from the front, simplifying fiber management and troubleshooting.

Summary

The 576-core fiber optic distribution frame is a versatile, high-density solution for modern optical networks. It combines robust construction, modularity, and standards compliance to support large-scale deployments in telecom, data centers, and industrial applications, ensuring efficient fiber splicing, distribution, and long-term network reliability.

Article Content

576 Core Fully Loaded Waterproof Fiber Optic Distribution Frame

Fiber Optic Distribution Frame (or shortened as ODF), is used to form and distribute the local backbone optical cable in the optical fiber communication system, to fit the requirements of the connection,

1440/576 Core ODF Fiber Distribution Frame

The 1440/576 Core ODF Fiber Distribution Frame— a telecom-grade solution designed for quadruple-network (Telecom, Unicom, Mobile, Broadcast TV) convergence, featuring direct insertion cabinet

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Fiber Optic Distribution Frame ODF Max Cores: 504/576/720

Sun Telecom''s SUN-ODF-H series fiber optic distribution frames are widely applied in Local Central Office. These are used for fiber optic cable fixation, protection, termination, patching etc.

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

Distribution Cabinet

Fiber Distribution Cabinets GAO''s fiber distribution cabinets are enclosures used in telecommunications and networking infrastructure to house and manage fiber optic cables. These cabinets are installed in

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HIGH DENSITY FLOOR STANDING FIBRE OPTIC DISTRIBUTION

This NORDEN Fiber optic distribution cabinet is a high capacity, high-density fiber distribution frame, suitable for the composition and distribution of fibers in optical access network to achieve the fiber

Top 15 Fiber Optic Manufacturers (2026 Global Ranking)

An authoritative 2026 guide to the top 15 fiber optic manufacturers — from Corning and Prysmian to Fujikura and LS Cable — with headquarters, tech focus, and flagship products.

576 cores Indoor Distribution Frame

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576 cores Indoor Distribution Frame Optic Distribution Frame can be used in the termination and distribution of partial trunk optical cable in optical cable

SJ-ODF-03 576 Cores ODF Fiber Optic

ODF Fiber Optic is a high-capacity, high-density fiber distribution frame, suitable composition, and distribution of fibers in the optical access network to achieve

SUN-ODF-H Distribution Frame

SUN-ODF-H Distribution Frame Model: SUN-ODF-H Max cores: 504/576/720, HD series can be used with ODF units Key Features Electrostatic spraying technology adopted Suitable for installation of FC

576 cores Open Rack Indoor Distribution Frame

Standard 19-inch rack with a maximum capacity of 576 cores. The fiber main distribution frame is an open frame that can be operated at the front and back to

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

720 core odf fiber distribution hub FTTX 576 Cores d

An Optical Distribution Frame (ODF) is a frame used to provide cable interconnections between communication facilities, which can integrate fiber splicing, fiber termination, fiber optic adapters &

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. A fiber optic distribution

576 Cores Fiber Optic Patch Panel

MPO Fiber Optic Distribution Frame This high capacity fiber optic distribution frame support fiber cable fast connection and distribution. It load MTP/MPO and ribbon fiber cable inside,

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