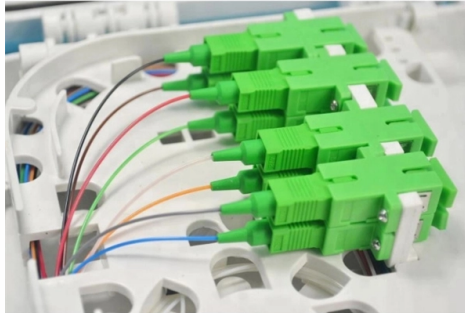


High-Density Fiber Optic Distribution Frame Solution



Article Overview

High-density fiber optic distribution frames (ODFs) provide scalable, modular, and efficient fiber management for data centers, central offices, and high-bandwidth networks.

Overview of High-Density ODFs

High-density ODFs serve as the central cross-connect and termination hub in fiber optic networks, supporting fiber fixing, splicing, termination, patching, and cable management in telecom rooms, data centers, and 5G base stations . They are designed to maximize fiber density while maintaining accessibility, manageability, and protection for optical cables and connectors .

Key Features

- **High Port Density:** Solutions like Corning's Centrix™ system support up to 4,320 LC or 2,880 SC ports per 7-ft frame, while Amphenol HyperX ODFs support up to 3,456 terminations . CommScope NG4access ODFs can handle up to 864 fibers per module .
- **Modular Design:** Most high-density ODFs are modular, allowing flexible deployment of patch, patch/splice, pre-terminated, or MPO-enabled modules. This enables scalable network growth and easy integration of advanced optical modules .
- **Cable Management:** Features include optimized jumper routing, bend radius protection, front and rear access, and physical protection to prevent entanglement and maintain signal integrity

Article Content

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Optical Distribution Frame System

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Contact Us

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