576 Optical Cable Junction Box Specifications



Overview

Scope cal fiber cable splicing, joint and protection. It is waterproof and dust proof and suitable for outdoor aerial hanged, pole unted, wall mounted, duct, buried application.

Key Takeaways

A 576-core optical cable junction box is a high-capacity, outdoor-ready fiber distribution cabinet designed for large-scale telecom and broadband networks, supporting multiple networks and providing robust protection and scalability.

Key Features

Capacity and Configuration: Supports up to 576 fiber optic cores, often organized in modular trays (12/24/48 ports per tray) for flexible splicing and distribution. Some models offer double-sided access for easier management and expansion. Compatible with SC and FC adapters, supporting mainstream ONU equipment and fusion splicing panels.

Material and Durability: Constructed from SMC (Sheet Molding Compound) composite material, which is lightweight (~38 kg) yet highly durable. Resistant to corrosion, rust, and high temperatures, outperforming traditional iron or aluminum boxes. Protection levels range from IP65 to IP68, ensuring water, dust, and extreme temperature resistance (-40°C to +85°C) for outdoor installations.

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Design and Installation: Modular internal layout allows fiber splitting, patching, and splicing without full disassembly. Supports ground, wall, or pole mounting, with flexible door opening options (front, back, or double-sided) for different deployment environments. Locking options include MS864-4 imitation Cologne lock, MS712 lock, or padlocks for secure access.

Applications: Ideal for telecom operators, broadband construction teams, and property management in large residential or commercial networks. Supports multi-network integration, including China Telecom, China Unicom, China Mobile, and broadcasting networks.

Suitable for FTT

H, PON, metro, and access network cross-connections, as well as fiber cable distribution and management. Scalability and Maintenance: Many models reserve 20% extra space for future expansion, allowing module additions without replacing the entire box. Built-in direct splice units facilitate trunk and distribution cable connections, storage, and splicing.

Designed for long-term stable operation, minimizing maintenance and failure rates in high-demand environments. Cost and Performance: SMC-based 576-core boxes offer better performance at lower cost compared to iron or aluminum alternatives, with improved thermal stability and longevity. In summary, a 576-core standard optical cable junction box is a robust, high-capacity solution for modern fiber optic networks, combining durability, multi-network compatibility, modularity, and scalability to meet the demands of large-scale telecom and broadband infrastructure projects.

Article Content

ENCLOSURE SPLICE DOME 48,120, 288 AND 576 FIBER

Scope cal fiber cable splicing, joint and protection. It is waterproof and dust proof and suitable for outdoor aerial hanged, pole unted, wall mounted, duct, buried application. It can be opened after

PW-GJX-X110-Optical cable junction box-Ningbo Prowell

Communication Optical Cable Cross Connecting Cabinet is the inte rface equipment suita ble for the exchanging between trunk opticalcable and optical distribution ca ble. Integrating heat sealing, roll

DOME FIBER OPTIC SPLICE CLOSURE

AR-SC7P-576F-T is a dome type fiber optic splice closure that widely applied to the splicing, distributing variable optical cables. It is big capacity, max. 576 fibers.

Fiber Optic Joint Closure Junction Box

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Description QYY- 576 Cores Fiber Optical Joint Closure Box Features The optical cable junction box adopts an innovative round cap structure design.. The box cover and the box bottom are locked and

Fiber Optic Splice Closure | 576 Fibers 48 Trays 6 Ports | Samm

Fiber Optic Closures 576F Fiber Optic Splice Closures Single Circuit Max: 48 Trays, 48x12 Fibers Features Modular capacity up to 576 fibers May be used for cut, uncut and taut sheath applications.

Fiber Splice Panel

4U panel fiber splice enclosure includes 24 cassettes and up to 576 LC/UPC singlemode connections for convenient on-site splicing to create custom cable

Fiber Distribution Hubs MDP EL 144/288 and MDP EL

The Fiber Distribution Hubs MDP EL 144/288 and MDP EL 288/576 are designed to store up to 576/1,152 splices and to terminate up to 192/384 fibers with SC

Mid-span 576 Cores IP68 Dome Fiber Splice Closure

The 576 core dome joint closure is a mechanical sealing design with one oval port cable entry and eight round port outlets. It is a great solution for distributing,

FTTH Cabinet

Optical cable junction box is a kind of junction equipment which provides the end and jump connection of optical cable in the main dry layer and distribution layer.After the introduction of optical cables into

Optical fiber splice box optical 1 in 6 out heat shrinkable Mechanical ...

Optical fiber splice box optical 1 in 6 out heat shrinkable Mechanical seal ip68 fiber 576 core fiber optic junction box See reviews Ningbo Guangdao Communication Technology Co., Ltd. 8 yrs

Outdoor 576 Cores Optical Fiber Cross Connect

High quality Outdoor 576 Cores Optical Fiber Cross Connect Cabinet SMC Fiber Optic Junction Box from China, China''s leading product market SMC Fiber Optic

OptiTect™ Advantage Fiber Distribution Hub 576-fiber Capaci

OptiTect™ Advantage Fiber Distribution Hub 576-fiber Capacity Corning Cable Systems Standard Recommended Procedure (SRP) 003-709 Issue 1, January 2006 Page 1 of 22

LightLink Optical Entrance Enclosures | AFL Global

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Optical Entrance Enclosures provide a wall-mounted, NEMA 3 rated splicing solution where joining large numbers of fibers at a protected or unprotected convergence point is the requirement. Rugged steel

576/840 Core Vertical Splice Closure Fiber Optic Enclosure IP68 ...

576/840 Core Vertical Splice Closure Fiber Optic Enclosure IP68 Waterproof Junction Distribution Box 1:8 Cable Entrance/Exit 8

ODC-576B SMC Optical Distribution Cabinet

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

OPGW Cable Joint Box Specifications

The technical specification outlines requirements for an optical fiber ground wire cable joint enclosure used for splicing 24 core fiber optic cables. The splicing junction box enclosure must support and

Metal Joint Junction Box, Splicing Box Manufacturer

The junction box supports, organizes, and protects optical fibers while ensuring their minimum bending radius is not exceeded. It''s rated IP65 and provides entry for all cables, including number tags for

Fiber Optic Splice Closure, Electrical Cable Junction Box Manufacturer

Fiber optical splice closure is widely used in communication, network systems, CATV cable TV, optical cable network systems, and so on. It is used for protective connection and fiber distribution between

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