48-core optical fiber distribution box specifications

Overview

High quality FTTH junction box, 48 core IP55 fiber optic The FDB-48 is suitable for indoor or outdoor FTTX applications that support up to 48 subscribers.

Key Takeaways

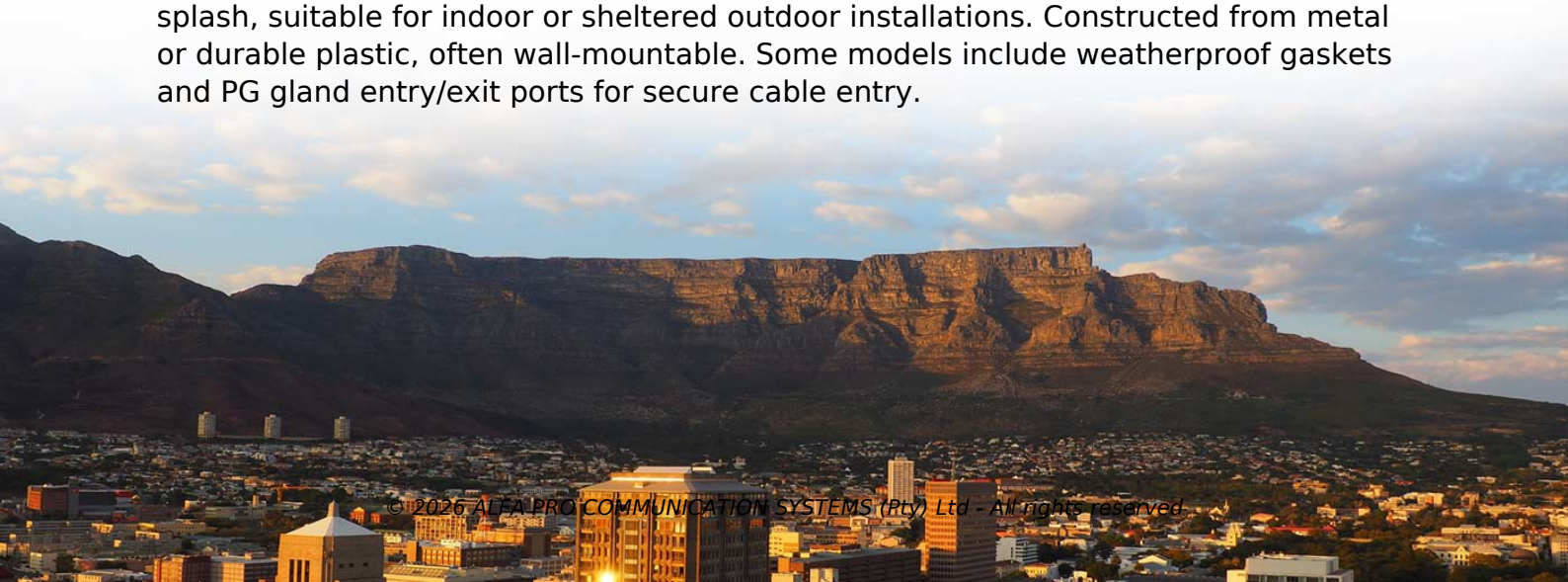
A 48-core optical fiber distribution box typically supports up to 48 fibers, offers weatherproof enclosures (IP55–IP65), and integrates splicing, distribution, and cable management for indoor or outdoor FTTH and telecom applications.

Key Specifications

Capacity and LayoutSupports up to 48 fiber connections with options for 16, 24, 32, or 48 SC ports. Typically features a two-layer design: a rear splice area for cable slack and splice protection, and a front interconnect area for SC ports. Can accommodate multiple splitters (e.g., 3 splitters) and splice trays for organized fiber management.

Enclosure and Environmental Protection

Enclosures are IP55 to IP65 rated, providing protection against dust, moisture, and splash, suitable for indoor or sheltered outdoor installations. Constructed from metal or durable plastic, often wall-mountable. Some models include weatherproof gaskets and PG gland entry/exit ports for secure cable entry.



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Cable Management and Accessibility

Designed for efficient cable routing, minimizing clutter and maintaining proper bend radius to prevent fiber damage. Features easy-to-open panels for installation and maintenance. Supports mid-span access for feeder/distribution integration, reducing the need for additional closures.

Splicing and Termination

Supports fusion splicing and organized termination with SC/APC or SC/UPC connectors. Multiple splice trays allow layered management for expansion and troubleshooting. Some models include cable fixation and grounding functions for safety and stability.

ApplicationsFTTH deployments for residential or commercial areas. Telecommunications networks and data centers for centralized fiber management. Local area networks and CATV systems requiring high-density fiber distribution.

Additional Features

Scalable design to accommodate future network expansion without full replacement. Suitable for indoor, sheltered outdoor, or commercial building installations, but fully exposed outdoor locations may require additional protection. These specifications make 48-core fiber distribution boxes a versatile solution for high-density fiber networks, ensuring reliability, organized routing, and ease of maintenance across various deployment scenarios.

Article Content

High quality FTTH junction box, 48 core IP55 fiber optic

The FDB-48 is suitable for indoor or outdoor FTTX applications that support up to 48 subscribers. It has a durable wall-mountable housing with a weatherproof gasket

48-Port Fiber Distribution Box — Large FTTH | TTI

48-port fiber distribution box for large-scale FTTH deployments. Dual-use indoor/outdoor design with IP55 protection. Pre-terminated with PLC splitter option for rapid deployment. Cold rolled steel

48 Core Fiber Distribution Box: Durable & Versatile

Efficiently manage and distribute up to 48 fiber optic connections with the robust, weatherproof SJ ODB M12 fiber distribution box, ideal for telecommunications,

POR 48 Wall-mounted Optical Distribution Box

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Optical cables can be lead in/out from upsite or downsite. Adapters plate is selectable and splicing tray is removable and suitable for field operation and

48F FTTH Plastic Fiber Distribution Box

Abalone Tech''s FDB18-48C Plastic Optical Fiber Distribution Box (ODB) is a compact and modular fiber management solution designed for efficient splicing, coupling, and distribution of up to 48-core fibers.

48 Core Fiber OTerminal Box for High-Density FTTH Networks

High Fiber Capacity: Supports up to 48 fiber terminations, managing large connections efficiently. Efficient Fiber Management: Includes splice cassette and cable rods for organized cable routing.

FTTH 48 Core Fiber Access Terminal Box

Telhua''s FTTH 48 Core Fiber Access Terminal Box delivers exceptional port density and reliability for demanding fiber-to-the-home deployments. Engineered to streamline network expansion, this

FDB-48 Fiber Distribution Box, 48 ports-AOA Tech

FDB-48 Series 48 ports Fiber Distribution Box can accommodate 1x32 PLC splitter. Anti-UV, Ultra violet resistant and rainfall resistant. IP65 waterproof case.

48 core fiber optic distribution box AIW48D

Indoor fiber optic distribution box is used for fiber connection, distribution and protection. It is made of metal, can be wall mounted and facilitates the test and refit of the lines.

48 Core Fiber Distribution Box: Durable & Versatile

Model: SJ-ODB-M12 48 Core Fiber Distribution Box Efficiently manage and distribute up to 48 fiber optic connections with the robust, weatherproof SJ ODB

Outdoor Indoor Fiber Distribution Box IP65 FTTH 48

The 48 Core fiber distribution box features a two-panel flip-up design, providing a separate working area for effortless management by the installer. This

ODF Optical Distribution Frame Spec Sheet

In many cases, the ODF racks will be deployed in small POP buildings alongside EQF frames where transmission equipment is mounted. These ODF''s then provide the necessary connection from the

Optical Fiber Distribution Box 32 or 48 Core

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Optical Fiber Distribution Box 32 or 48 Core Total enclosed structure. Material: ABS,wet-proof□water-proof□dust-proof□anti-aging, protection level up to IP65□ Clamping for feeder cable and drop

High quality FTTH junction box, 48 core IP55 fiber optic

The FTTH 48 Core Fiber Access Terminal Box is a new-gen product for FTTH. Light and compact, it''s ideal for connecting and protecting FTTH fiber cables. The FDB

48 Core FTTH Wall Mounted Distribution Box

48 Core FTTH Wall Mounted Distribution Box Wall Mounted Fiber Optic Distribution Box 24 Fiber Ports is for indoor use and can accommdodate up to 48 fiber

Fiber Distribution Box & Terminal Box | CRXCONEC FTTH

Fiber Distribution Box & Terminal Box Outdoor & Indoor Fiber Box Fiber Distribution Box are used in cross-connection (indoor and outdoor devices). They are available in 8.12.16.24.48.144.288 core

FDB-48 Fiber Distribution Box, 48 ports-AOA Tech

Overview FDB-48 Series 48 ports Fiber Distribution Box, also called Splitter Distribution Box or Fiber Terminal Box, can be used in FTTH projects and is suitable for corridor, basement, room, and

48 Core Fiber Optic Distribution Box optical termination

DA-FDB-48B-PA-10 Fiber Optic Distribution Box Dawnergy''s fiber optic distribution boxes are widely used as a termination point for the feeder cable to connect with

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

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