

Metal Joint Box for Communication Optical Cables

Article Overview

A metal joint box is a durable, weatherproof enclosure designed to protect and manage optical fiber splices and connections in communication networks.

Overview

Metal joint boxes are essential for connecting, splicing, and protecting optical cables in aerial, underground, duct, or direct-buried installations. They are commonly used for ADSS, OPGW, and standard fiber optic cables, providing a secure environment that prevents moisture, dust, and mechanical damage from affecting the fiber performance .

Construction and Materials

These boxes are typically made from aluminum alloy or hot-dip galvanized steel, offering high mechanical strength, corrosion resistance, and long service life (often exceeding 25 years), . They feature mechanical or heat-shrinkable seals to ensure water and dust tightness, often meeting IP65 to IP68 standards . The enclosures include anchoring points for strength members and provisions for grounding metallic elements .

Fiber Management and Capacity

Metal joint boxes are designed with splice trays and fiber organizers to maintain the minimum bending radius of optical fibers, reducing signal loss. Capacities vary widely, from 12 to 576 fibers, with some models supporting up to 1000 splices using extension collars or additional trays . The boxes allow flexible input/output ports, making installation and maintenance easier, and can accommodate two to four sleeves for cable entry .

Installation and Applications

These enclosures can be mounted on poles, towers, walls, or pedestals, depending on the model . They are suitable for aerial, duct, hand hole/manhole, and buried installations, providing easy field access for splicing and maintenance . The design ensures that stress on the fiber does not affect transmission performance, and the boxes can be repeatedly opened, expanded, or maintained .

Environmental Protection

Metal joint boxes are engineered to withstand extreme temperatures, moisture, vibration, and physical impact. They provide superior sealing and mechanical protection, ensuring uninterrupted service and network integrity



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even in harsh outdoor conditions .

Key Benefits

- o Protects optical fiber splices from environmental hazards
 - o Maintains fiber bending radius to minimize signal loss
 - o Long-term durability and corrosion resistance
 - o Flexible installation options for poles, towers, ducts, or buried setups
 - o High fiber capacity with organized splice trays for efficient cable management
- Metal joint boxes are a critical component in modern telecommunication networks, ensuring reliable and long-lasting protection for optical cable connections.

1. Optical Fiber Splice Closure/Joint Box/Joint Closure is suitable for Aerial, Pipeline, Direct-buried; 2. CATV environment,

The company offers ADSS cable, OPGW cable, Figure-8 fiber cable, Air-blowing fiber cable,

OPGW Fiber Optic Closure / OPGW Metal Joint Box with Fiber Splice Tray Production: Description: Used

OPGW splice box provides essential features such as protection, sealing,

Our Optical Cable Joint Box offers exceptional quality within the Fiber Optic Equipment category. Selecting factory-priced fiber optic

Prysmian Part Numbers: - See page 3 EWMJ joint boxes are specially designed to provide the maximum versatility for OPGW cable

The junction box supports, organizes, and protects optical fibers while ensuring their minimum bending radius is not exceeded. It's

Fiber optic splice closure / OPGW cable joint box Product Name: Metal Splice Closure For OPGW Fiber Optic Cable Model: JBJ

A cap-type metal joint box is used for splicing ADSS and OPGW fiber optic cables in telecommunications,

Fiber optical splice closure is widely used in communication, network systems, CATV cable TV, optical

The XOK universal joint closures are designed to provide water and pressure tight environmental protection

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for optical fibres and

Fibre optic metal joint box/joint closure/splice closure is used for the continuation of the optical cable in the middle of the tower, which

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Fiber Optic Cable Joint Box Riteoptic fiber optic cable joint box provides optical, sealing and mechanical

Cable Joint Box is designed for splicing ADSS,OPGW cables and the normal cables,

We are Fiber Optic Splice Closure manufacture and supplier, provide Dome Type Metal Optical Cable Joint Box on sale,factory price.

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