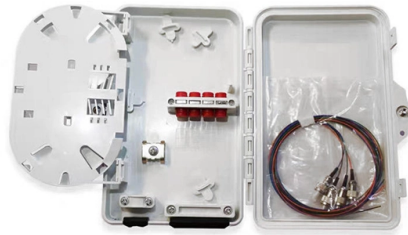


Fiber Distribution Box Parameters



AI Overview

Fiber distribution boxes (FDBs) are compact, durable enclosures designed to terminate, splice, and manage optical fibers in FTTx networks, with specifications covering material, capacity, environmental resistance, and functional features.

Key Parameters and Specifications

Material and Durability: FDBs are typically made from high-strength engineering plastics or metal, offering UV resistance, anti-aging properties, and weatherproofing for outdoor deployment . The materials ensure protection against moisture, dust, and mechanical impact . **Size and Capacity:** The box dimensions vary depending on the number of fibers and splitters it accommodates. Common configurations include 16-core or 24-core capacity, with provisions for 1x8 or 1x16 LGX splitters and optional patch panels for SC-type adaptors . The internal design maintains a safe bend radius for fibers, typically compliant with G6 52 standards . **Fiber Management:** FDBs provide splice trays, slack storage, and fiber fixing devices to organize and protect fibers. They allow mechanical and fusion splicing, as well as distribution and jumper management . Color-coded fibers and labeled storage areas facilitate easy identification and maintenance . **Installation and Access:** Boxes are designed for wall-mount or pole-mount installation, with front-side access for easy installation and maintenance. Doors typically open beyond 120° and include secure locks to prevent unauthorized access . Insulation between metal components and the box shell prevents electrical interference . **Environmental and Security Considerations:** FDBs are suitable for indoor and outdoor applications, withstanding temperature extremes, sunlight, moisture, and mechanical stress . Security features include locks and robust closures to protect the fibers from tampering . **Expandability and Compatibility:** Ma...

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