

What is the size of the secondary fiber distribution box

Article Overview

Secondary fiber distribution boxes typically range from compact wall-mounted units of about 200x150x60 mm to larger outdoor enclosures around 400x300x120 mm, depending on capacity and deployment scenario.

Overview

A secondary fiber distribution box (FDB) is a passive enclosure used to terminate, splice, and distribute optical fibers in FTTH, PON, or enterprise networks. It provides secure fiber management, slack storage, and protection for splices and adapters while allowing easy access for maintenance and testing .

Typical Dimensions

- o Compact indoor units: Often used in residential or small office settings, these boxes are usually 200-250 mm wide, 150-200 mm high, and 50-80 mm deep. They accommodate a small number of fibers (8-24 ports) and may include 1x8 splitters or patch panels .
- o Medium outdoor units: Designed for street cabinets or pole-mounted installations, these boxes can be 300-400 mm wide, 250-300 mm high, and 100-120 mm deep, supporting 24-48 fibers with additional space for slack storage and multiple splitters .
- o High-density or rack-mounted units: For larger deployments, secondary FDBs may be rack-mounted or modular, supporting 48-96 fibers or more, with dimensions varying according to the number of splice trays and adapters .

Design Considerations

- o Material: ABS or engineering plastics for indoor use; SMC or reinforced plastics for outdoor durability .
- o Capacity: Should allow 20-30% headroom for future expansion .
- o Accessibility: Front-opening doors with angles greater than 120° facilitate installation and maintenance .
- o Fiber Management: Separate storage for drop cables and loose tubes prevents overlapping and allows easy identification of faults .

Conclusion

While there is no single standard size for secondary fiber distribution boxes, most indoor secondary FDBs are compact (around 200x150x60 mm), and outdoor or higher-capacity units are larger (up to 400x300x120 mm). The exact size depends on fiber count, splitter configuration, and installation environment, so it is important to select a box that meets both current and future network requirements .



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