

AI-N2-4620

Outdoor Fiber Optic Distribution Cabinet



Introduction

The cabinet is constructed from Electro-Galvanized (EG) steel sheet with anti-corrosion zinc coating, ensuring high durability for outdoor environments. The enclosure is fabricated using 1.2 mm thick steel. The enclosure structure is reinforced and designed to resist deformation under long-term outdoor use.

The surface is finished with electrostatic powder coating, providing additional protection against UV, moisture, and corrosion.

This robust design makes the cabinet ideal for a wide range of applications, including fiber optic network systems, CCTV and security systems, as well as industrial and outdoor electrical installations.

Product Description

Sealing & Protection

The front door is equipped with a continuous CNC-formed foam gasket, ensuring complete sealing against water and dust ingress. This sealing system offers longer service life compared to conventional rubber sealing. The enclosure meets IP55 protection rating, suitable for outdoor installations exposed to rain, humidity, and dust.

Locking System

The cabinet is equipped with a flush-mounted push handle lock, providing both security and ease of operation while maintaining a clean exterior design.

Internal Structure

Equipped with a removable and adjustable back mounting panel, allowing flexible installation of equipment

- ▶ Designed to support installation of Splice Tray (12-core / 24-core)
- ▶ Includes internal cable management system for neat fiber routing
- ▶ Supports both Single-mode and Multimode fiber optic systems
- ▶ Supports Snap-in Fiber Optic Adaptor Plate (FC, SC, ST, LC)
- ▶ Modular design allows flexible adaptor installation, Maximum capacity up to 48 fiber ports

Cable Management

- ▶ Bottom cable entry with minimum 4 cable entry points
- ▶ Supports installation of Cable Gland (EG/PG-29 or equivalent)
- ▶ Designed for secure cable fastening and strain relief

Product Description

Ventilation & Heat Dissipation

- ▶ Equipped with natural ventilation system on both sides
- ▶ Includes protective covers to prevent water ingress
- ▶ Supports installation of cooling fans (minimum 2 units, size $\geq 4" \times 4"$)
- ▶ Airflow design : Cold air intake from lower sides , Heat exhausted from upper section

Mounting System (3-in-1 Design)

The cabinet supports multi-installation in one complete set, including:

- ▶ Wall-mounted installation (concrete wall) design with 4-point corner fixing brackets for secure installation
- ▶ Utility pole mounting
- ▶ Round steel pole mounting

All required mounting accessories are included.

Accessories

- ▶ All external hardware made from 304 stainless steel (screws, clamps, brackets)
- ▶ Includes insect-proof mesh for ventilation openings
- ▶ Complete installation kit provided

Dimensions & Customization

- ▶ Minimum Size: 700 (H) \times 500 (W) \times 250 (D) mm
- ▶ Custom Dimensions Available
- ▶ Standard Colors: White, Grey
- ▶ Custom Color Options Available
- ▶ Multiple Locking Options Supported

Additional Features

- ▶ Door opening angle $\geq 200^\circ$ for easy maintenance
- ▶ Internal mounting rails for equipment such as UPS or network devices
- ▶ Equipped with internal grounding system
- ▶ Designed with water-drip edge to prevent rain intrusion when door is opened
- ▶ Equipped with removable inner mounting plate, fixed with 4-point screw mounting
- ▶ The mounting plate can be detached for flexible equipment installation