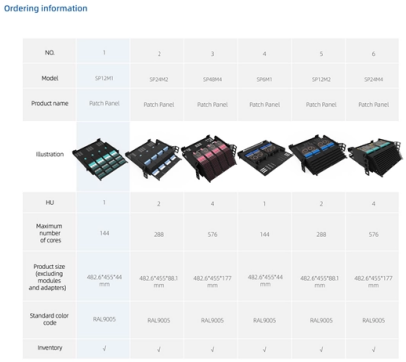
Optical Cross-Connect Box Shell


Ordering information

NO.	1	2	3	4	5	6
Model	SP12M1	SP24M2	SP48M4	SP6M1	SP12M2	SP24M4
Product name	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel
Illustration						
HU	1	2	4	1	2	4
Maximum number of cores	144	288	576	144	288	576
Product size (excluding modules and adapters)	482.6*455*44 mm	482.6*455*88.1 mm	482.6*455*177 mm	482.6*455*44 mm	482.6*455*88.1 mm	482.6*455*177 mm
Standard color code	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005
Inventory	√	√	√	√	√	√

Overview

Optical Cross-Connect (OCC) Cabinets & Kits | CorningAll products in this family offer modular design for incremental growth and are ideal as outdoor prote.

Key Takeaways

An optical cross-connect (OCC) box shell is the protective enclosure that houses fiber optic cross-connect hardware, providing structural support, environmental protection, and organized fiber management.

Overview

The shell of an optical cross-connect box serves as the outer casing for optical cross-connect equipment, which connects, distributes, and manages optical fibers in communication networks. It is designed to protect delicate fiber optic cables and components from environmental hazards such as moisture, dust, mechanical impact, and temperature fluctuations. The shell also provides a secure and organized framework for technicians to perform splicing, testing, and maintenance.

Structure and Materials

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Typically, the shell is made from durable materials such as galvanized steel or high-strength composites to ensure longevity and resistance to corrosion. It includes: Door or access panel for easy maintenance and fiber accessInternal frame and base plate to support fiber trays, splice holders, and connector modulesMounting provisions for pad or rack installation, depending on the deployment environmentLocking mechanisms to secure the cabinet and prevent unauthorized accessOptional insulation or foam layers to protect fibers from temperature extremes Modularity and CompatibilityModern OCC shells are modular, allowing incremental growth and flexible configuration.

They can accommodate various connector, splice, and coupler housings, including field connectorized or factory-stubbed modules. This modularity enables network expansion and adaptation to changing communication needs without replacing the entire shell.

Environmental and Operational Considerations

The shell is designed to maintain performance in harsh field environments, including outdoor installations exposed to severe weather. It provides: Physical protection for optical fibersOrganized routing and storage of fiber slackSupport for splicing, testing, and fiber adjustmentsResistance to mechanical damage, dust, and moisture Pad-mountable versions include frames that facilitate installation on concrete pads, ensuring proper cable entry and secure mounting.

Summary

The optical cross-connect box shell is a critical component of fiber optic networks, combining structural integrity, environmental protection, and modularity. It ensures reliable operation of optical cross-connects by safeguarding fibers, supporting network maintenance, and enabling flexible network expansion.

Article Content

Optical Cross-Connect (OCC) Cabinets & Kits | Corning

All products in this family offer modular design for incremental growth and are ideal as outdoor protected environments for cross-connect installations. Compatible

Cross-Connect Cabinet | Corning

Cross-Connect Cabinet E-mail Access Type Double-sided Single-sided Cabinet Type 4220 Series 4230 Series 4300 Series

LGX® Fiber Optic Shelves (Lightguide Cross-Connect)

The LGX Combination Unit is a versatile system of optical cable management boxes, which can be configured in many ways. Mix and match adapter panels to

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Cross-Connect Cabinet

A box-like intersection unit that offers a safe housing solution for optical fibers, wiring cables, and jumper connections that link optical cables and wiring cables, is

FieldSmart Fiber Cross-Connect Cabinet | Clearfield

The FieldSmart FDH Cross-Connect Cabinet is the complete solution for managing up to 864 fibers in most any feeder/distribution ratio for an outside plant FTTx application. This solution provides an

Optical Cross-Connect (OXC) Fundamentals

An optical cross-connect (OXC) is a network device that switches high-speed optical signals between fiber inputs and outputs without converting

Infinity Shuffle OXC

By providing a modular, high-density, and passively shuffled connection, we empower you to accelerate deployment, reduce operational complexity, and

Optical Cross-Connect (OXC)

Based on the concept of integrated interconnection all-optical switching, an OXC system consists of the all-optical backplane, optical tributary board, and optical line board.

Fiber Optical Cross Connect Cabinets

Fibconet offers a range of fully-enclosed fiber optic cross connect cabinets designed to meet your business and budget requirements while ensuring optimal performance for your

Requirements, architectures, and technologies for optical cross ...

The growing demands for telecommunications bandwidth, and the development of high-capacity optical networks, are creating a demand for large-port-count optical cross-connects. The

Cross-Connect Cabinet Solutions

Cross-Connect Cabinets Innovative technology and durable construction Our cabinets ofer cutting-edge, rigorously tested materials, including powder-base, anti-static paint and stainless steel hardware.

Optical Cross Connect Cabinet Basics and Selection Guide

Types of Optical Cross Connect Cabinet According to different occasions, it can be divided into two types: indoor type and outdoor type, and it can be installed on the floor, overhead, or wall-mounted.

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Fiber Optical Cross Connect Cabinets

Fiber Optic Cross Connect Cabinets Factory Fibconet offers a range of fully-enclosed fiber optic cross connect cabinets designed to meet your business and budget requirements while

SUN-OCC-SMC Optical Cross-connect Cabinet

Sun Telecom''s SUN-OCC-SMC series fiber optic cross-connect cabinets are mainly used for termination and cross-connections between cabling elements. This series of OCC''s are with excellent insulation,

Optical Cross-Connect (OCC) Cabinets

Corning''s family of optical cross-connects (OCCs) are versatile, fully enclosed cabinets designed for fiber optic rack-mountable hardware. All products in this family offer modular design for incremental

Optical Cross-Connect Family

All products in this family offer modular design for in-cremental growth and are ideal as outdoor protected environments for cross-connect installations. Compatible with Corning rack-mountable

EV-01242-EVO-50-EN

Description Corning Cable Systems'' family of Optical Cross-Connects (OCCs) are versatile, fully enclosed cabinets designed for fiber optic rack-mountable hardware. All products in this family offer

Outdoor 96/144 core fiber optic cross connect cabinet

Metal 96 Core Fiber Optic Termination Box is currently being widely used for distributing outdoor optical cable in indoor and outdoor conditions. This 96 Core

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