

Optical Fiber Patch Panel

TECHNICAL DATA SHEET

**Fiber Optic Rack-Mount Distribution
Frame – Duplex (ODF-RS-205 24/48)
1U 19" Standard Design For SC-DX or
LC-QD adapters**



Fiber Optic Rack-Mount Distribution Frame - Duplex (ODF-RS-205 24/48) 1U 19"

Product Description:

The Fiber Optic Rack-Mount Distribution Frame – Duplex (ODF-RS-205 24/48) is a high-density 1U fiber management solution designed for fiber termination, splicing, storage, and distribution in standard 19-inch rack systems.



It supports SC Duplex (SC-DX) or LC Quad/Duplex (LC-QD) adapters and provides organized cable routing with excellent fiber protection and management efficiency.

Manufactured from high-quality cold-rolled steel with electrostatic powder coating, the ODF ensures durability, corrosion resistance, and long operational life. It is widely used in telecom rooms, FTTH deployments, enterprise networks, data centers, and structured cabling systems.

Features:

- Standard 19-inch 1U rack-mount design
- Supports SC Duplex and LC Quad/Duplex adapters
- High-density fiber termination and distribution
- Integrated splice tray for organized fiber management
- Cold-rolled steel construction for enhanced durability
- Electrostatic powder-coated finish for corrosion resistance
- Efficient cable routing and bend radius protection

Applications:

- FTTH (Fiber to the Home) Networks
- Telecom and Communication Systems
- Data Centers and Server Rooms
- Enterprise Structured Cabling
- Optical Distribution Systems
- Fiber Patch Panel Installations
- LAN / WAN Fiber Networks



Technical Specifications:

Parameter	Specification
Port Capacity	24 SC Duplex / 48 LC Duplex
Fiber Capacity	Up to 48 Fibers
Adapter Support	SC-DX / LC-QD
Mounting Standard	19-Inch Rack
Height	1U
Material Thickness	1.0 mm Steel
Splice Tray Capacity	12–24 Fibers per Tray
Cable Entry Ports	Multiple Rear Entry Ports
Operating Temperature	-10°C to +60°C

Storage Temperature	-25°C to +55°C
Relative Humidity	≤ 85%
Insulation Resistance	≥ 1000 MΩ
Durability	≥ 1000 Mating Cycles
Compliance Standards	IEC / TIA / RoHS

Environmental Specifications:

Parameter	Specification
Operating Temperature	-10°C to +60°C
Storage Temperature	-25°C to +55°C
Relative Humidity	≤ 85%
Atmospheric Pressure	70 kPa ~ 106 kPa
Corrosion Resistance	Powder-Coated Steel Protection
Mechanical Protection	High Structural Strength
Cable Protection	Fiber Bend Radius Management
Indoor / Outdoor Use	Indoor Applications
RoHS Compliance	Yes

Advantages

- High-density fiber management in a compact 1U rack space
- Supports both SC Duplex (SC-DX) and LC Quad/Duplex (LC-QD) adapters
- Provides secure fiber termination, splicing, and distribution
- Protects optical fibers from bending and mechanical stress
- Durable cold-rolled steel construction for long service life
- Electrostatic powder coating improves corrosion resistance
- Easy cable routing and organized fiber management
- Simplifies maintenance and troubleshooting operations
- Suitable for telecom, FTTH, and data center applications
- Optimizes rack space utilization in high-density environments