

Part Number: PL-FOPPFS24

Product Description:

High-density 1U fixed rack-mount fiber patch panel designed for termination, splicing and organized distribution of up to 48 fibers while retaining full front-access labeling and protected internal fiber management.

Premium Features:

- 19-inch, 1U rack-mount enclosure with robust cold-rolled steel construction.
- Modular front interface supporting LC and SC adapter configurations.
- Optimized fiber routing with ≥ 40 mm managed bend radius and protected splice storage.
- Rear/side cable entry, strain relief, cable clamping and dedicated grounding point.
- Numbered ports, labeling field, dust protection and removable service cover.
- High-density faceplate layout optimized for backbone and data-center cross-connect applications.



Applications: Data centers • MDF/IDF rooms • LAN/WAN • FTTx/PON • Telecom rooms • Campus backbone • CCTV/IP networks

Technical Specifications:

Form Factor	19-inch rack mount, 1U
Panel Mechanism	Fixed high-density base with removable top cover
Fiber Capacity	48 fibers nominal; high-density LC/SC configurations
Splice Management	4 × 12F splice trays or equivalent 48F management
Adapter Compatibility	LC Duplex / SC Simplex / SC Duplex; UPC or APC as configured
Fiber Compatibility	OS2, OM3, OM4 and OM5
Chassis Material	Cold-rolled steel (SPCC), ≥ 1.2 mm, powder-coated
Finish	Black, RAL 9005 or equivalent
Adapter Sleeve	Premium zirconia ceramic sleeve when supplied loaded
Adapter Insertion Loss	≤ 0.20 dB typical, ≤ 0.30 dB max (loaded configuration)
Return Loss - Pigtails	SM UPC ≥ 50 dB; SM APC ≥ 60 dB; MM ≥ 35 dB (when supplied)
Mating Durability	≥ 500 cycles for LC/SC adapter interface
Operating Environment	-20°C to +70°C; 5-95% RH, non-condensing
Fiber Bend Radius	Managed radius ≥ 40 mm inside the enclosure

Design & Ordering Details:

Mechanical / Fiber Management • Multiple rear/side cable entry points with strain relief and tie-down points. • Dedicated chassis grounding point and standard 19-inch rack ears. • Heat-shrink splice sleeve and pigtail storage compatible with 900 µm fibers. • Port numbering, label field and A/B polarity identification for duplex links.	Available Factory Configurations • Empty chassis or factory-loaded assembly. • LC Duplex, SC Simplex or SC Duplex faceplate options. • OS2 UPC/APC and OM3/OM4/OM5 multimode options. • Adapters, pigtails, splice sleeves, cable glands and rack-mount kit available as a complete set.
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Standards & Design References: ANSI/TIA-568.3-E • ISO/IEC 11801-1 • IEC 61754-4 (SC) • IEC 61754-20 (LC) • IEC 61300 series (applicable tests)

Configuration Options: Empty chassis or loaded with adapters, pigtails, splice sleeves and accessories; connector/fiber color coding per project requirement.