

Part Number: PL-FOPPSL48

Product Description:

Premium 2U sliding rack-mount fiber patch panel engineered for high-density termination, fusion splicing, protection and distribution of up to 96 fiber ports in standard 19-inch racks. The pull-out tray provides front service access while maintaining controlled fiber routing and protected splice storage.

Premium Features:

- 19-inch, 2U high-density sliding enclosure with robust cold-rolled steel construction.
- Up to 96 fiber ports; typical LC configuration uses 48 × LC Duplex adapter positions.
- Smooth pull-out drawer with travel stop for front-access installation and maintenance.
- Modular adapter plates support LC and SC formats; UPC or APC as selected.
- Internal splice-tray, routing-ring and strain-relief system maintains ≥ 40 mm managed bend radius.
- Multiple cable-entry and tie-down points, chassis grounding, port numbering and labeling field.
- Available empty or factory-loaded for OS2, OM3, OM4 and OM5 systems.



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

Technical Specifications:

Form Factor	19-inch rack mount, 2U, sliding drawer
Nominal Capacity	96 fiber ports / 96 fibers
Typical LC Density	48 × LC Duplex adapters = 96 fiber ports
Alternative Interfaces	SC Simplex / SC Duplex; density subject to selected adapter plate
Rack Dimensions	Approx. 482.6 mm W × 304.8 mm D × 88.9 mm H; final production drawing to govern
Splice Management	4 × 24F splice trays or equivalent 96F splice-management capacity
Panel Mechanism	Pull-out sliding drawer with positive travel stop and service-access position
Fiber Compatibility	OS2 (G.652.D / G.657.A1), OM3, OM4 and OM5
Chassis Material	Cold-rolled steel, nominal ≥ 1.2 mm, powder-coated
Finish	Black, RAL 9005 or equivalent
Adapter Sleeve	Premium zirconia ceramic sleeve when supplied loaded
Insertion Loss - Loaded	≤ 0.20 dB typical, ≤ 0.30 dB max per adapter interface
Return Loss - Pigtails	SM UPC ≥ 50 dB; SM APC ≥ 60 dB; MM ≥ 35 dB, when supplied
Mating Durability	≥ 500 mating cycles for LC/SC interface
Operating Temperature	-40°C to +85°C for enclosure; loaded optical components per approved BOM
Humidity	5-95% RH, non-condensing
Fiber Bend Radius	Managed internal routing radius ≥ 40 mm
Cable Management	Rear/side cable entry, strain relief, tie-down points and dedicated grounding point

Design & Ordering Details:

Mechanical / Fiber Management • Front-access sliding maintenance without removing the chassis from the rack. • Protected pigtail routing, splice-sleeve storage and cable strain relief. • Port numbering and label field for organized administration. • Adjustable rack ears / cable glands available by production configuration.	Available Factory Configurations • Empty chassis or factory-loaded assembly. • LC Duplex standard high-density configuration; SC options by faceplate. • OS2 UPC/APC and OM3/OM4/OM5 multimode options. • Adapters, pigtails, splice sleeves, trays, glands and mounting hardware available as a complete set.
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Standards & Design References: ANSI/TIA-568.3-E • ISO/IEC 11801-1 • IEC 61754-20 (LC) • IEC 61754-4 (SC) • IEC 61300 series (applicable tests) • EIA-310 rack-mount dimensional practice

Compliance Options: RoHS / REACH documentation available subject to approved factory configuration and project requirement.