

Part Numbers: PL-FOSC12B / PL-FOSC24B / PL-FOSC48B

Product Description:

Premium fiber-optic splice cassette series designed for secure organization, protection and storage of fusion-spliced fibers inside PLANET wall-mount distribution boxes, rack-mount fiber panels and optical distribution enclosures. Available in 12-, 24- and 48-fiber capacities, the series provides controlled fiber routing, protected splice-sleeve retention and service-friendly access for scalable fiber-management applications.

Premium Features:

- 12-, 24- and 48-fiber capacity options for scalable fusion-splice management.
- Flame-retardant engineering-plastic construction with smooth internal surfaces to protect fiber coating and buffer tubes.
- Integrated routing channels, retention tabs and slack-storage areas help prevent micro-bending and accidental fiber damage.
- Fiber-management geometry designed for a routing radius of ≥ 40 mm and never below the fiber/cable manufacturer requirement.
- Removable / hinged protective cover protects completed splices while providing convenient re-entry for maintenance.
- Multiple fiber entry/exit paths support neat routing from either side and simplify installation in compact enclosures.
- Stackable / modular architecture supports higher-density distribution systems; 24F and 48F versions may use multi-layer tray arrangements.
- Suitable for OS2 single-mode and OM3 / OM4 / OM5 multimode systems and standard fusion-splice protection sleeves.

Applications: FTTx / FTTH • LAN and campus backbone • Telecom rooms • MDF/IDF • Wall-mount fiber boxes • Rack-mount fiber panels • ODF / distribution enclosures • PON networks



Technical Specifications:

Product Type	Fiber-optic splice cassette / splice-management tray series for protected fusion splicing
Available Capacities	12 fibers / 24 fibers / 48 fibers
Model Range	PL-FOSC12B: 12F • PL-FOSC24B: 24F • PL-FOSC48B: 48F
Splice Method	Fusion splice; compatible with common heat-shrink fusion-splice protection sleeves
Splice Protector Support	Typical 40–60 mm heat-shrink sleeves; final sleeve size per approved cassette insert / production drawing
Fiber Compatibility	OS2 (G.652.D / G.657.A1 / G.657.A2) and multimode OM3 / OM4 / OM5
Construction Material	Flame-retardant ABS/PC engineering plastic, UL 94 V-0 grade or equivalent project-approved material
Cover	Removable or hinged protective cover with secure snap / latch retention
Fiber Management	Integrated routing channels, slack-storage areas, fiber-retention tabs and protected entry/exit paths
Minimum Routing Radius	Design target ≥ 40 mm; never below the fiber/cable manufacturer minimum bend-radius requirement
Cassette Architecture	Compact, stackable / modular; 24F and 48F versions may use dual-layer or multi-layer tray arrangements
Mounting	Internal enclosure mounting by cassette holder, snap-in feature or screw fixing according to approved housing design
Operating Temperature	-40°C to +70°C target range, subject to final approved material and enclosure configuration
Storage Temperature	-40°C to +85°C target range, subject to final approved material grade
Relative Humidity	5–95% RH, non-condensing
Safety / Handling	Rounded internal edges and protected retention features reduce risk of coating damage, pinching and micro-bending
Color	Standard factory color per approved BOM; project colors available subject to MOQ
Dimensions	Capacity-dependent; final dimensions and mounting-hole pattern per approved production drawing

Design & Ordering Details:

Cassette Design - Protected splice-sleeve retention matched to cassette capacity. - Integrated fiber routing and slack-storage paths. - Serviceable cover for inspection and re-entry. - Stackable architecture for scalable enclosure capacity.	Ordering Information - PL-FOSC12B — 12 Fiber splice capacity. - PL-FOSC24B — 24 Fiber splice capacity. - PL-FOSC48B — 48 Fiber splice capacity. - Cassette-only or kit configuration; sleeves and mounting hardware optional.
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Standards & Design References: ANSI/TIA-568.3-E • ISO/IEC 11801-1 • IEC 61300 series • applicable project and enclosure requirements

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