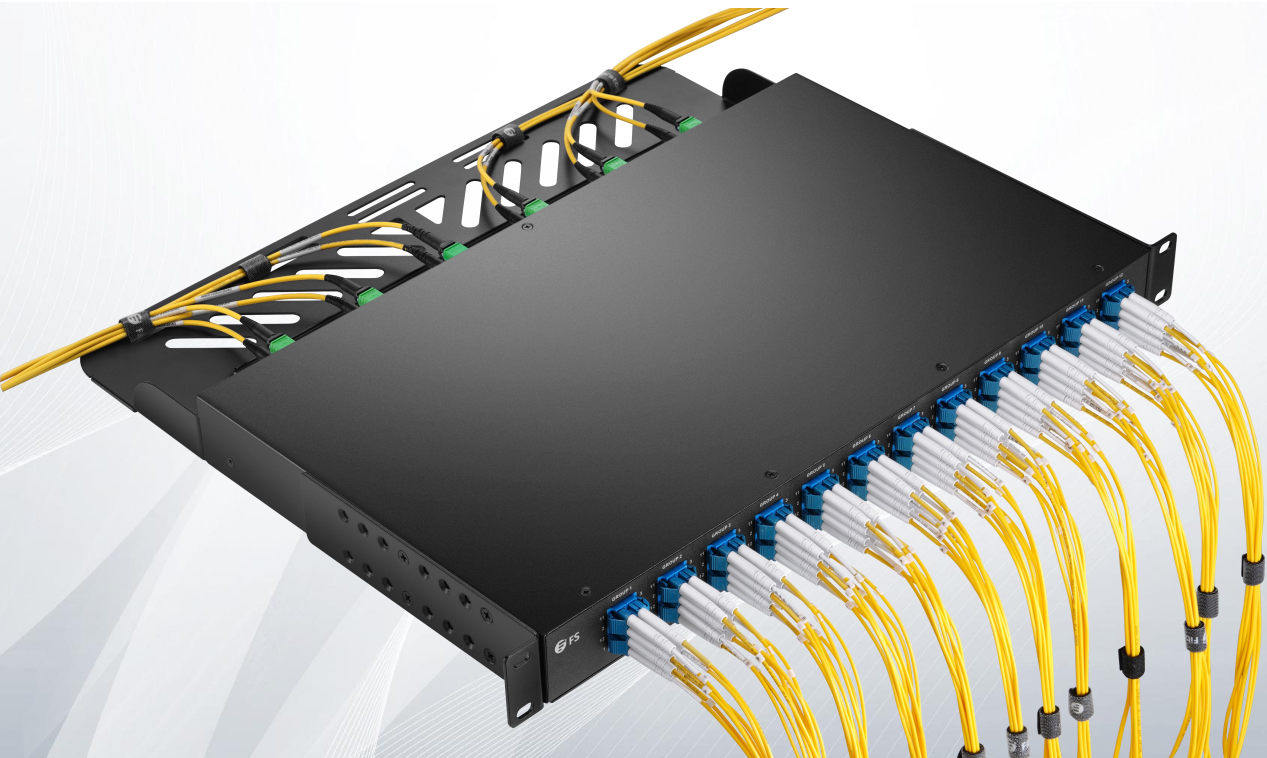


MTP®-LC Breakout Panels

High-density Pre-terminated Modular System



Description

FHU MTP®-LC Breakout Panels are pre-terminated and designed to mount into 19" wide telecommunications racks allowing 96 fiber connections to be deployed in one rack unit (1U) without additional support infrastructure. This ensures efficient use of space, quick deployment, and the highest reliability for the lowest installed cost. This configuration is ideally suitable for 40G/100G networks.



Features

- Maximizes density with up to 96 fiber connections in 1U for efficient utilization of rack space.
- Allows for an easy upgrade path moving 40GbE to 4x 10GbE or 100GbE to 4x 25GbE connectivity.
- Provides reduced overall insertion loss with low channel to channel variability for improved channel link loss performance.
- Improves reliability and quick deployment to reduce installation time and cost.
- Removable cable management tray on the back, effectively manage trunk cables.

Application

FHU MTP®-LC Breakout Panels are used in high-density network applications as specified in the Data Center Cabling Standard TIA 942 for cross connects in main distribution, horizontal distribution, and equipment distribution areas.

Product Specifications

I. Product Constructions

Fiber Count	96 Fibers
Fiber Mode	Multimode: OM4 50/125µm Single Mode: OS2 9/125µm
Front Connectivity	Single Mode: LC Quad adapters with UPC polish Multimode: LC Quad adapters with UPC polish
Rear Connectivity	Single Mode: MTP® adapters with male ferrules (pins) and APC polish Multimode: MTP® adapters with male ferrules (pins) and UPC polish
Material	1.2mm SPCC (Black Coating)
Dimensions (HxWxD)	1.73"x19"x10.3" (44x482x261.2mm)

II. Performance Properties

Front Connector	LC Quad
Number of Front Adapters	24
Insertion Loss	Single Mode: Per Channel ≤ 0.2 dB Multimode: Per Channel ≤ 0.2 dB
Return Loss	Single Mode: Per Channel ≥ 50 dB Multimode: Per Channel ≥ 30 dB
Material of Sleeve	Zirconia Ceramic

III. Performance Properties

Rear Connector	MTP®-8 (Key up-Key down)
Number of Rear Adapters	12
Insertion Loss	Single Mode: Ultra low IL 0.35dB max. Multimode: Ultra low IL 0.35dB max.
Return Loss	Single Mode: Per channel ≥ 20 dB Multimode: Per channel ≥ 60 dB
Connector Durability	US Conec MTP® brand adapters meets TIA/EIA 568.C.3A.4.9 Durability: 500 mating cycles

IV. Environmental Characteristics

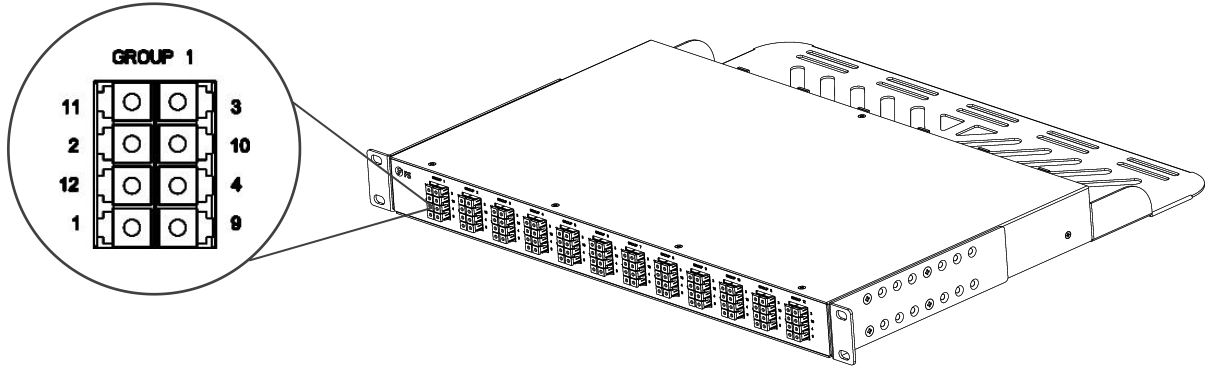
Operating Temperature	-20 °C to 60 °C
Storage Temperature	-40 °C to 70 °C
Installation Temperature	0 °C to 60 °C

Standards Compliance

- ISO9001 Certificate
- RoHS Compliant

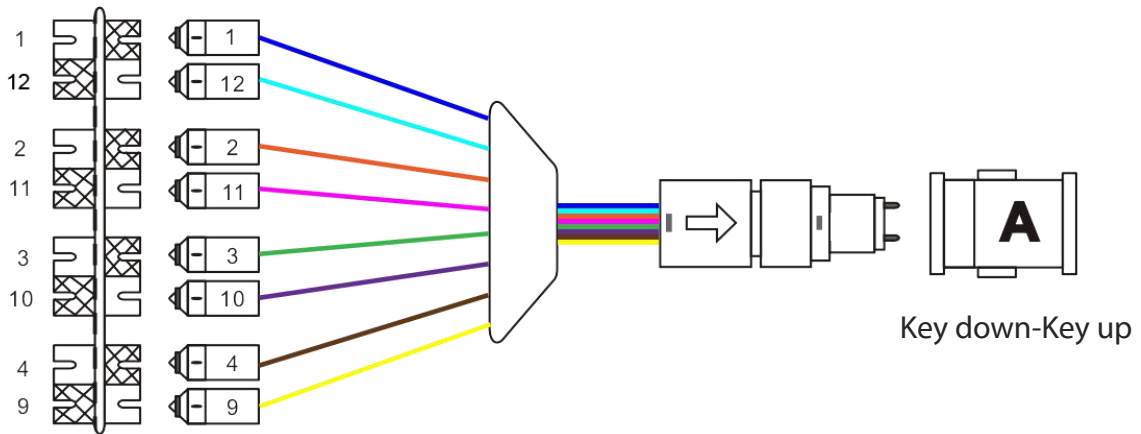
Polarity Illustration

Silk label on each product includes port identification and group number for quick identification and 100% traceability.



The internal Base-8 wiring of MTP®-LC breakout panel ensures the correct fiber polarity throughout the entire system.

* The connection of 1 Group is shown.

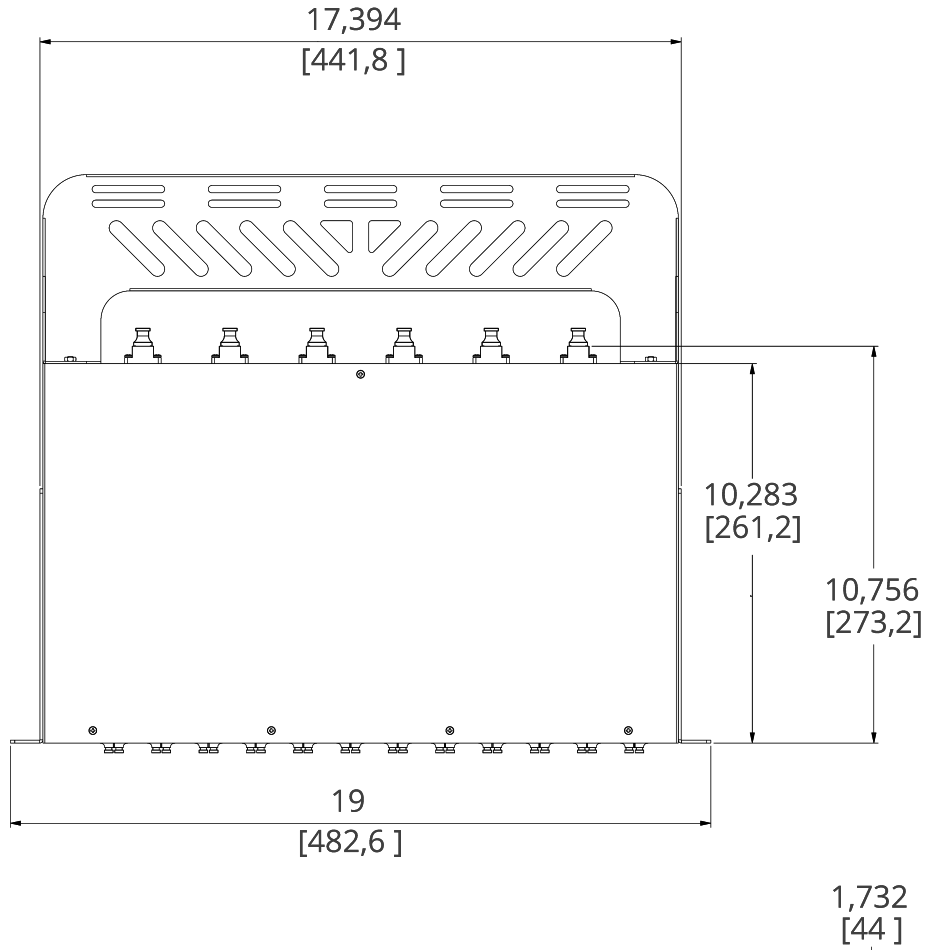


Note:

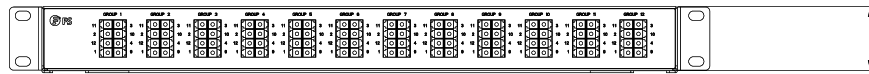
The 12 Groups are of the same connection sequence.

Layout and Dimensions

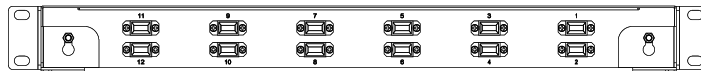
Top view



Front view



Rear view



Dimensions are in inches. (Dimensions in parentheses are in millimeters).

Hot Products

ID	Description
#43552	12x MTP®-8 to 24x LC Quad, 96 Fibers OS2 Single Mode FHU 1U Breakout Patch Panel Flat
#43514	12x MTP®-8 to 24x LC Quad, 96 Fibers OM4 Multimode FHU 1U Breakout Patch Panel Flat

Matching Products

ID	Description
#70771	45U 4-Post Adjustable Open Frame Rack
#73579	42U Black Network & Server Cabinet 800*1170mm with 2 Pre-Installed Cable Managers and PDU Brackets
#72911	1U Metal Horizontal Lacer Panel with 5 Rotating and Detachable Plastic D-rings
#68018	1m (3ft) MTP® Female to Female 12 Fibers OS2 9/125 Single Mode Trunk Cable, Type B, Elite
#68017	1m (3ft) MTP® Female to Female 12 Fibers OM4 Multimode Trunk Cable, Type B, Elite
#68294	1m (3ft) LC UPC to LC UPC Duplex PVC (OFNR) OS2 Single Mode BIF Fiber Patch Cable, Typical 0.12dB IL
#68299	1m (3ft) LC UPC to LC UPC Duplex OM4 Multimode Elite BIF Fiber Patch Cable, 0.15dB IL, PVC (OFNR)



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