



**NEDIA
FIBER**

Passive Products for Data Centers



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1. 24F LC duplex 19" Patch Panels



Description

Fiber Termination Units are used for termination and management of fiber backbone and equipment cables in Central Office and bulk fiber distribution systems. It serves as the interface between field cables and equipment. Cables may be terminated directly or after splicing. Provisions are provided for internal fiber management by cable spooling with minimum bend radius and stackable splice trays. Rack mounted versions are designed for flange mounting on 19-inch racks.

Features

- Number of ports from 6 to 48
- Provision for cable anchoring, cable straps included Stackable splice tray
- Slack space for easy cable management
- Cable entry from rear or sides Radius controlled cable routing Front Access to cable connectors
- Standard connector specification applied

2. 19" High Density Module - MPO/MTP – LC

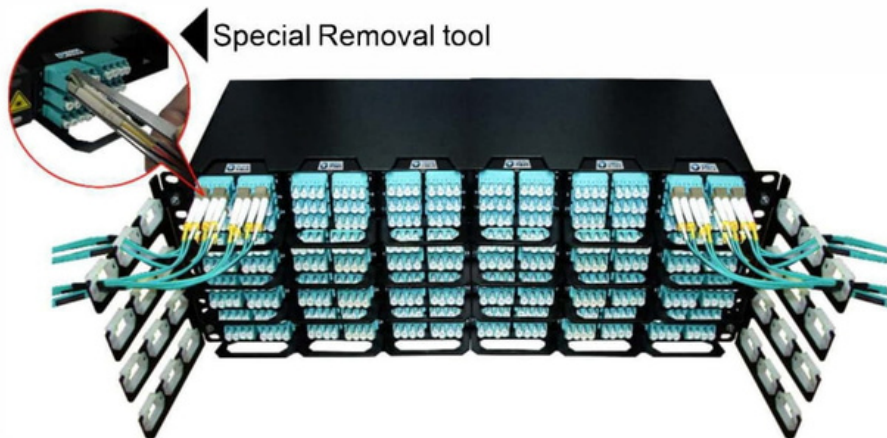


Description

1RU, 2RU and 4RU panels can be configured for various module footprints including LGX and HD, an option for both in the same panel, and other customized configurations. The 2RU can be configured with up to 288 LC connectors & the 4U can be configured up to 576 LC duplex.

Features

- Flexibility with Interchangeable Face Plates
- Special removal tools are available for the HD chassis.
- Rugged Construction of Heavy Gauge Powder Coated Aluminum or CRCI for Extended Lifetime and High-End
- Black or any custom color
- Earthing facility available
- Improved design to assure fiber optic cable bend radius not less than 40mm.



Optical Specifications

SC & LC Specifications

Parameters	Single Mode (1310, 1550nm)	Multimode (850, 1300nm)
	UPC	PC
Insertion Loss (dB)	≤0.3dB	≤0.3dB
Return Loss (dB)	≥55dB	≥20dB

MTP Specifications

	MTP MM Standard	MTP MM Elite	MTP SM Standard	MTP SM Elite
Insertion Loss (dB)	≤0.60dB	≤0.35dB	≤0.75dB	≤0.35dB
Return Loss (dB)	≥20dB	≥20dB	≥60dB	≥60dB

MPO Specifications

	MPO MM Standard	MPO MM Elite	MPO SM Standard	MPO SM Elite
Insertion Loss (dB)	≤0.60dB	≤0.35dB	≤0.75dB	≤0.35dB
Return Loss (dB)	≥20dB	≥20dB	≥60dB	≥60dB

Ordering Information

Product Type		Port Count		Cassette		Fiber Type	
Type	Code	Port	Code	No. of Cassette	Code	Type of Fiber	Code
1U	6	72	6	0	0	Single mode	0
2U	7	144	7	1	1	OM1	1
4U	8	288	8	2	2	OM2	2
		576	9	3	3	OM3	3
				And So, on		OM4	4
						OM5	5
						NA	X

Connector	Fiber Count	Polarity	Fiber Count
End A	Fiber Count	Polarity	Fiber Count
MTP Elite/Male	08	Polarity-A	08
MTP Standard/Male	12	Polarity-B	12
MPO Elite/Male	24	Polarity-C	24
MPO Standard/Male	NA	NA	NA
MTP Elite/Female			
MTP Standard/Female			
MPO Elite/Female			
MPO Standard/Female			
NA			

End A	Code	Fiber Count	Code
MTP Elite/Male	1	08	8
MTP Standard/Male	2	12	2
MPO Elite/Male	3	24	4
MPO Standard/Male	4	NA	X
MTP Elite/Female	5		
MTP Standard/Female	6		
MPO Elite/Female	7		
MPO Standard/Female	8		
NA	X		

3. High Density Cassette



Description

MPO fiber optic cassettes cater to a high density pre-terminated fiber optic system designed exclusively for data centers, storage area networks, and local area networks. This Fiber Optic Plug and Play (PnP) cassettes are designed with pre-terminated fiber and multi-fiber push on Connectors (MPO). They allow the quick addition of new devices in a computerized system, without the need for reconfiguration or manual installation of other external devices. Internally, each fiber is routed and connected within the cassette to its appropriate port on the front end of the unit.

Features

- Extreme Simplicity - Reduces implementation time
- Easy cable management and routing
- Compact Designs, holding up to 24 fibers
- Factory Terminated & tested - saves time and ensures reliability
- RoHS complaint
- With Warranty Label and Earthing facility
- Standard polarity (A, B & C) & custom polarity available

Optical Specifications

SC, LC Specifications		
Parameters	Single Mode (1310,1550nm)	Multimode (850,1300nm)
	UPC	PC
Insertion Loss (dB)	≤0.3dB	≤0.3dB
Return Loss (dB)	≥55dB	≥20dB

MTP Specifications				
	MTP MM Standard	MTP MM Elite	MTP SM Standard	MTP SM Elite
Insertion Loss (dB)	≤0.60 dB	≤0.35 dB	≤0.75 dB	≤0.35 dB
Return Loss (dB)	≥20dB	≥20dB	≥60dB	≥60dB

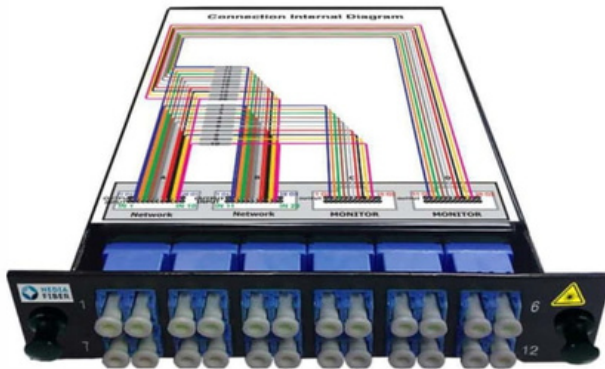
MPO Specifications				
	MPO MM Standard	MPO MM Elite	MPO SM Standard	MPO SM Elite
Insertion Loss (dB)	≤0.60 dB	≤0.35 dB	≤0.75 dB	≤0.35 dB
Return Loss (dB)	≥20dB	≥20dB	≥60dB	≥60dB

Ordering Information

Product Type		Fiber Type		Polarity	
Type	Code	Type of Fiber	Code	Polarity	Code
08	8	Single mode	0	Polarity-A	A
12	2	OM1	1	Polarity-B	B
24	4	OM2	2	Polarity-C	C
		OM3	3	NA	0
		OM4	4		
		OM5	5		
		NA	X		

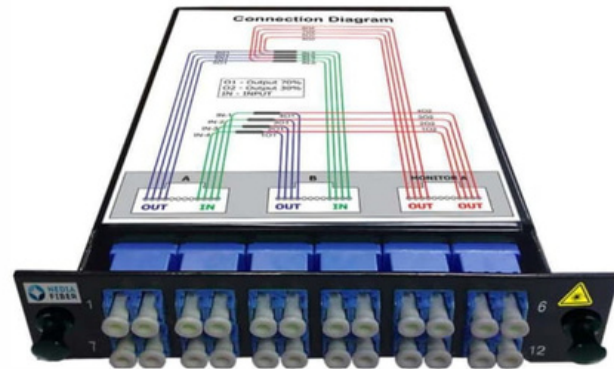
End A Connector	Code	End B Connector	Code
MTP Elite/Male	1	LC/UPC	A
MTP Standard/Male	2	SC/UPC	B
MPO Elite/Male	3	NO Connector	X
MPO Standard/Male	4		
MTP Elite/Female	5		
MTP Standard/Female	6		
MPO Elite/Female	7		
MPO Standard/Female	8		
NA	X		

4. Tap Module



Description

Total traffic visibility for monitoring and security devices by placing Optics tap module on critical network links. The all-optical design of the tap module is optimized and tested for high-performance on fiber networks. Available for LC and MTP connector types for single mode or multimode fiber networks running at ATM, 1 Gigabit, 10 Gigabit, 40 Gigabit, and 100 Gigabit speeds.



Features

- High density design saves rack space
- 100% Geometry, Endface Insertion loss & Return loss Tested
- Available in Single Mode and Multi mode
- All split ratios available: 50, 60, 70, 80, and 90
- Standard polarity A, B, C and Custom polarity
- Compatible with all protocols and monitoring devices
- Passes all full-duplex traffic (including errors) from all layers.
- Non-disruptive and transparent
- Quick, easy installation saves time with front-mounted connectors.
- Prevent Port Over subscription and Data Overload
- Available with bend insensitive TFT and fused splitters
- Standard connector specification applied.

5. Keyed LC Solution

Description

Keyed LC Connector Solution offers mechanical network security for organizations seeking to segregate networks due to privacy or security concerns. The Keyed LC Connector features a compact, one piece molded housing with internal strength member, for significantly improved 90C side-pull performance under Telcordia GR-326-CORE testing.



Features

- LC Keyed connectors and adapters prevent improper connection of separate networks with common access points.
- LC SECURE products feature twelve color coded, keyed designs to limit improper connections of networks.
- Each LC secure connector will mate only with same-color LC secure adapter.
- Insertion loss maximum: 0.3dB
- Return loss Minimum: 55 db.
- Plastic housing and boots made from UL-rated materials.

6. High Density Panel (Sliding Tray Type)



Description

High Density unique design patch panel, with maximum LC connectivity & cabling, adopting high strength environmental light weight material and superior surface treatment technique, which make the panel achieve complete function and various flexible cabling solutions.



Features

Super Density Cabling

- 1U/144F LC or 72F SC
- 2U/288F LC or 144F SC
- 4U/576F LC or 288F SC

Easy Operation

- Standard 19" Patch
- Front-end cable management
- Stable adapter structure

Composition

- Aluminum patch panel
- Plug-in cassette module
- Fiber adapter
- MPO/MTP trunk cable
- MPO-LC fan out or LC/SC trunk patch cord

Various Flexible Cabling

- Compatible with 8F & 12F solution
- Replaceable label and layer remark
- Duplex and Quad adapter available
- Various connector options available
- MPO-LC fan out and LC/SC trunk cable
- Multi-applications in Data Center and FTTX

Specifications

ITEMS	1U ODF	2U ODF	4U ODF
Cassette QTY	6 Pcs	12 Pcs	24 Pcs
Capacity	LC 144 Fiber/ SC 72 Fiber	LC 288 Fiber/ SC 144 Fiber	LC 576 Fiber/ SC 288 Fiber
Operating Temperature	-20°C~+60°C		

7. Patch cords

Features

- Uses ceramic ferrules.
- Stable in environmental and mechanical testing
- 100% testing for insertion loss and return loss.
- Available in different connector options
- Compact and Reliable packaging
- SM & MM Patch Cords available

Specifications

Endface	As per IEC
Geometry	As per IEC

Optical Specifications

Connectors - SC, LC		
Parameters	Single Mode (1310,1550nm)	Multimode (850,1300nm)
	UPC	PC
Insertion Loss (dB)	≤0.3dB	≤0.2dB
Return Loss (dB)	≥55dB	≥20dB

Ordering Information

Product Type		Cable Type	
1	LC-LC Patch cord	1	Simplex
2	SC-SC Patch cord	2	Duplex
		3	Uniboot

NE	X1	X2	X3	X4
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Fiber Type		Product Length	
0	Single Mode	0001	0.1 Meter
1	OM1	0010	1 Meter
2	OM2	0100	10 Meter
3	OM3	1000	100 Meter
4	OM4		
5	OM5		



9. Fanout Assembly



Features

- 8, 12 and 24 fiber optic cable available
- Save duct space and installation time
- 900µm or 2mm fan-out tube
- Available, Single mode & Multimode
- High reliability & repeatability

Specifications

Endface	As per IEC
Geometry	As per IEC

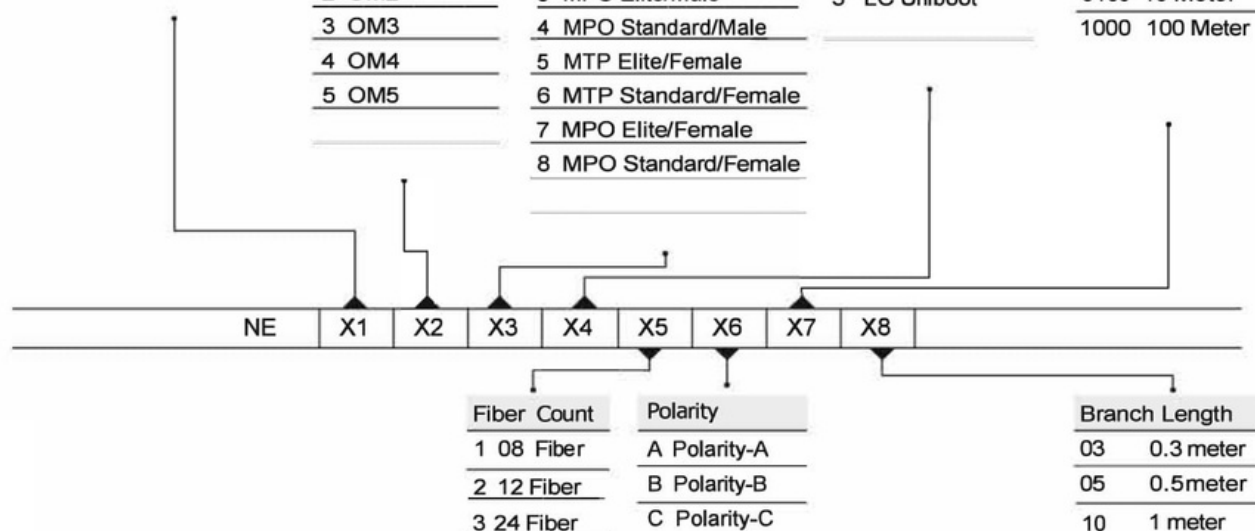
Optical Specifications

MTP Specifications				
	MTP MM Standard	MTP MM Elite	MTP SM Standard	MTP SM Elite
Insertion Loss (dB)	≤0.60dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB	≤0.75 dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB
Return Loss (dB)	≥20dB/ ≥20dB	≥20dB/ ≥20dB	≥60dB/ ≥55dB	≥60dB/ ≥55dB

MPO Specifications				
	MPO MM Standard	MPO MM Elite	MPO SM Standard	MPO SM Elite
Insertion Loss (dB)	≤0.60dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB	≤0.75 dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB
Return Loss (dB)	≥20dB/ ≥20dB	≥20dB/ ≥20dB	≥60dB/ ≥55dB	≥60dB/ ≥55dB

Ordering Information

Product Type	Fiber Type	End 1 Connector	End 2 Connector	Main Cable length
1 Fanout Assembly	0 Single Mode	1 MTP Elite/Male	1 LC Simplex	0001 0.1 Meter
	1 OM1	2 MTP Standard/Male	2 LC Duplex	0010 1 Meter
	2 OM2	3 MPO Elite/Male	3 LC Uniboot	0100 10 Meter
	3 OM3	4 MPO Standard/Male		1000 100 Meter
	4 OM4	5 MTP Elite/Female		
	5 OM5	6 MTP Standard/Female		
		7 MPO Elite/Female		
		8 MPO Standard/Female		



10. 144/288F Trunk Cable Assembly



Features

- 144/288Fiber optic cable available
- Save duct space and installation time
- 2mm fan-out tube
- Available, Single mode & Multimode
- High reliability & repeatability

Specifications

Endface	As per IEC
Geometry	As per IEC

Optical Specifications

MTP Specifications				
	MTP MM Standard/LC	MTP MM Elite/LC	MTP SM Standard/LC	MTP SM Elite/LC
Insertion Loss (dB)	≤0.60dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB	≤0.75 dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB
Return Loss (dB)	≥20dB/ ≥20dB	≥20dB/ ≥20dB	≥60dB/ ≥55dB	≥60dB/ ≥55dB

MPO Specifications				
	MPO MM Standard/LC	MPO MM LS /LC	MPO SM Standard/LC	MPO SM LS /LC
Insertion Loss (dB)	≤0.60dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB	≤0.75 dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB
Return Loss (dB)	≥20dB/ ≥20dB	≥20dB/ ≥20dB	≥60dB/ ≥55dB	≥60dB/ ≥55dB

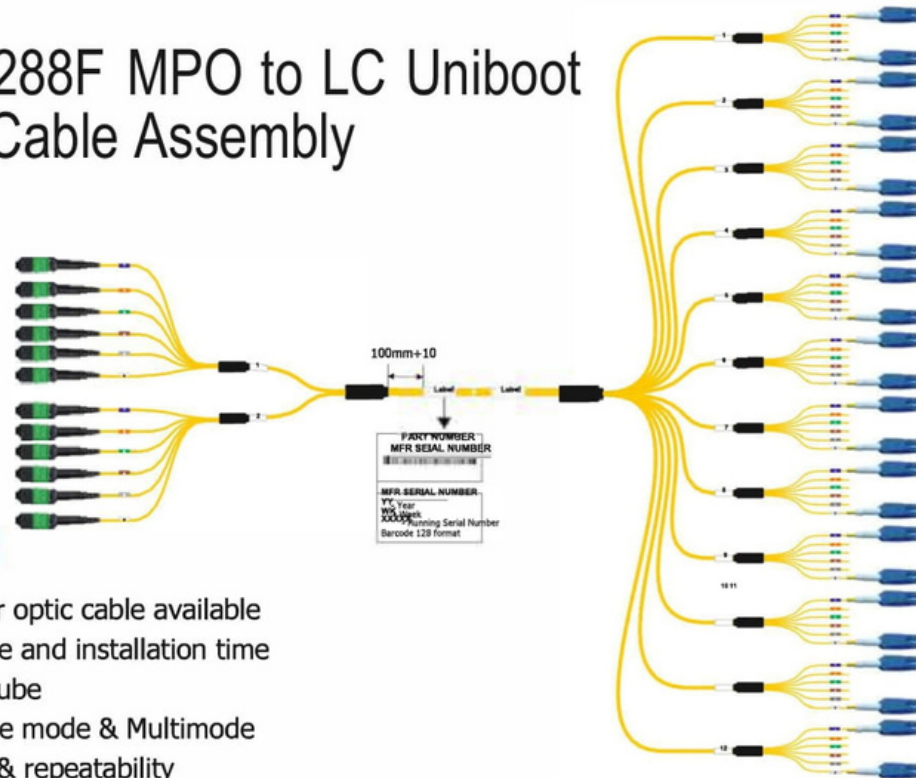
Ordering Information

Product Type	Fiber Type	End 1 Connector	End 2 Connector	Main Cable length
1 Fanout Assembly	0 Single Mode	1 MTP Elite/Male	1 LC Simplex	0001 0.1 Meter
	1 OM1	2 MTP Standard/Male	2 LC Duplex	0010 1 Meter
	2 OM2	3 MPO LS/Male	3 LC Uniboot	0100 10 Meter
	3 OM3	4 MPO Standard/Male		1000 100 Meter
	4 OM4	5 MTP Elite/Female		
	5 OM5	6 MTP Standard/Female		
		7 MPO LS/Female		
		8 MPO Standard/Female		

Fiber Count	Polarity	Branch Length
1 144 Fiber	A Polarity-A	03 0.3 meter
2 288 Fiber	B Polarity-B	05 0.5 meter
	C Polarity-C	10 1 meter

APC polish type available on demand

11. 144/288F MPO to LC Uniboot Breakout Cable Assembly



Features

- 144 & 288 fiber optic cable available
- Save duct space and installation time
- 2mm fan-out tube
- Available, Single mode & Multimode
- High reliability & repeatability

Optical Specifications

MPO Specifications				
	MPO MM Standard/LC LS/LC	MPO MM LS/LC	MPO SM Standard/LC	MPO SM LS/LC
Insertion Loss (dB)	≤0.60dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB	≤0.75 dB/ ≤0.30 dB	≤0.35 dB/ ≤0.30 dB
Return Loss (dB)	≥20dB/ ≥20dB	≥20dB/ ≥20dB	≥60dB/ ≥55dB	≥60dB/ ≥55dB

Specifications

Endface	As per IEC
Geometry	As per IEC

Ordering Information

Product Type	Fiber Type	End 1 Connector	End 2 Connector	Main Cable length
1 Fanout Assembly	0 Single Mode	1 MPO Elite/Male	1 LC Simplex	0001 0.1 Meter
	1 OM1	2 MPO Standard/Male	2 LC Duplex	0010 1 Meter
	2 OM2	3 MPO LS/Female	3 LC Uniboot	0100 10 Meter
	3 OM3	4 MPO Standard/Female		1000 100 Meter
	4 OM4			
	5 OM5			

NE	X1	X2	X3	X4	X5	X6	X7	X8

Fiber Count	Polarity	Branch Length
1 144 Fiber	A Polarity-A	03 0.3 meter
2 288 Fiber	B Polarity-B	05 0.5 meter
	C Polarity-C	10 1 meter



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