

FHD MPO Cassettes

High Density Pre-terminated Modular Cassette System



Description

FHD Fiber Optic MPO Cassettes consist of pre-terminated LC or SC adapters for quick and easy deployment in high density applications and provide efficient utilization of rack space and design flexibility. The cassettes interconnect with high-density fiber cable assemblies for quick connection of remote or data center applications.





Features

- High-density modular design, up to 96 fiber in 1U for efficient utilization.
- Pre-terminated cassette for improved reliability and quick deployment.
- High performance connectors to achieve a low loss optical budget.
- Plug-N-play modules allow fast installation of multiple fiber links.
- Offered in a wide range of performance and polarity configurations.
- The corning fiber compoliant to Telcordia, EIA/TIA and IEC standards.



Product Specifications

I. Product Constructions

Fiber Count	12 Fibers and 24 Fibers
Fiber Mode	Multimode: OM3 50/125μm OM4 50/125μm Single mode: OS2 9/125μm
Front Connector	Multimode: LC/SC Duplex with UPC polish Single mode: LC/SC Duplex with UPC/APC polish
Rear Connector	Multimode: MPO adapter(s) with male ferrules (pins) and UPC polish Single mode: MPO adapter(s) with male ferrules (pins) and APC polish
Polarity Type	Type A/AF/B1/B2
Material	Aluminium (AL5052)
Dimensions (HxWxD)	1.38"x4.29"x4.64" (35x109x118mm)

II. Performance Properties

Rear Connector	MPO				
	Multimode: Stand IL 0.6dB max.				
Insertion Loss	Ultra low IL 0.35dB max.				
ilisei doli Loss	Single mode: Stand IL 0.75dB max.				
	Ultra low IL 0.35dB max.				
Return Loss	Multimode: ≥20dB				
keturn Loss	Single mode: ≥60dB				



III. Performance Properties

Front Connector	LS/SC Duplex
Fiber Mode	Multimode/Single mode
Material of Sleeve	Zirconia Ceramic
Insertion Loss	Multimode: UPC ≤0.2dB Single mode: APC ≤0.3dB UPC ≤0.2dB
Return Loss	Multimode: UPC ≥30dB Single mode: APC ≥60dB UPC ≥50dB

IV. Environmental Characteristics

Operating Temperature	0°C-75°C
Storage Temperature	-40°C-75°C

Polarity Illustration

In any installation, it is important to ensure that the transmitter at one end matches the corresponding receiver at the other end. FS provides a number of intelligent solutions that can help you manage and optimize your network and its connectivity.

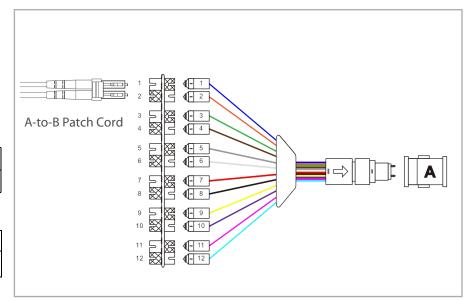


I. MPO -12 Cassette, Type A



Port	2	4	6	8	10	12
Labeling	1	3	5	7	9	11

Inner	2	4	6	8	10	12
Sequence	1	3	5	7	9	11

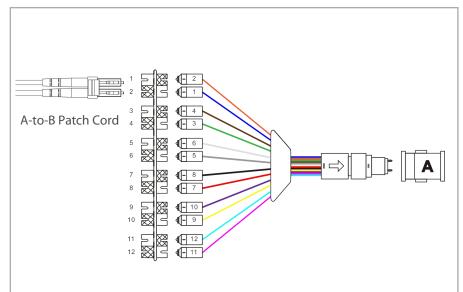


II. MPO -12 Cassette, Type AF



Port	2	4	6	8	10	12
Labeling	1	3	5	7	9	11

Inner	1	3	5	7	9	11
Sequence	2	4	6	8	10	12



Note: Type A and Type AF are used as a pair in a two cassette method A link.

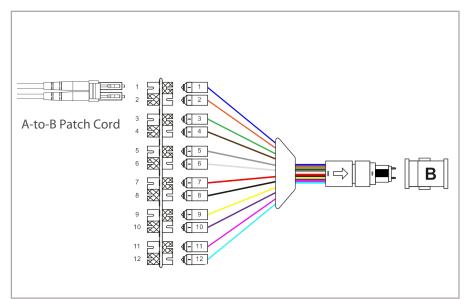


III. MPO -12 Cassette, Type B1



Port	2	4	6	8	10	12
Labeling	1	3	5	7	9	11

Inner	2	4	6	8	10	12
Sequence	1	3	5	7	9	11

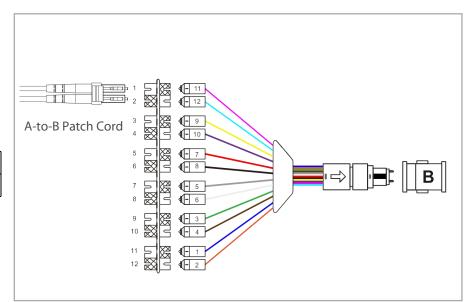


IV. MPO -12 Cassette, Type B2



Port	2	4	6	8	10	12
Labeling	1	3	5	7	9	11

Inner	12	10	8	6	4	2
Sequence	11	9	7	5	3	1



Note: Type B1 and Type B1 are used as a pair in a two cassette method B link.

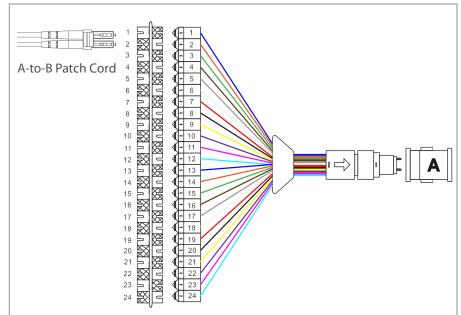


V. MPO -24 Cassette, Type A



Port Labeling	14	16	18	20	22	24
	13	15	17	19	21	23
	2	4	6	8	10	12
	1	3	5	7	9	11

Inner Sequence	14	16	18	20	22	24
	13	15	17	19	21	23
	2	4	6	8	10	12
	1	3	5	7	9	11

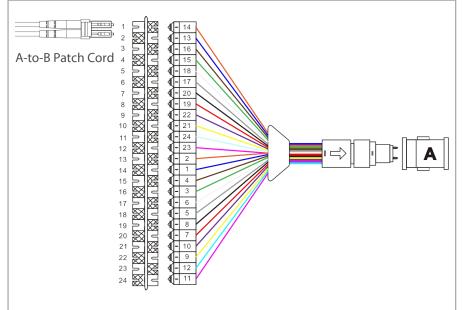


VI. MPO -24 Cassette, Type AF



Port Labeling	14	16	18	20	22	24
	13	15	17	19	21	23
	2	4	6	8	10	12
	1	3	5	7	9	11

Inner Sequence	1	3	5	7	9	11
	2	4	6		10	
	13	15	17	19	21	23
	14	16	18	20	22	24

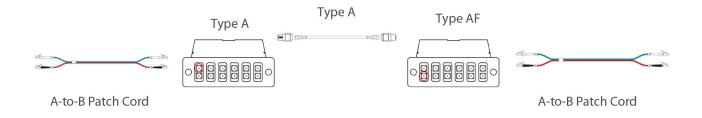


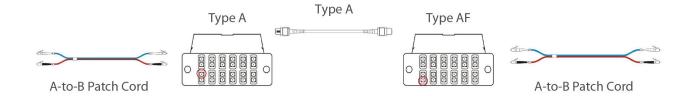
Note: Type A and Type AF are used as a pair in a two cassette method A link.



VII. Method for Achieving Fiber Polarity

1. Connectivity Method A for Duplex Signals

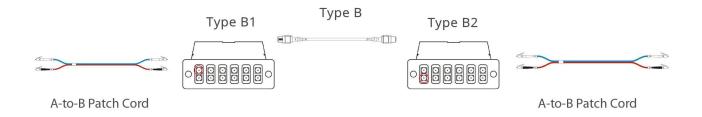




Note:

The transmission of the signal is P2 in and P1 out.

2. Connectivity Method B for Duplex Signals



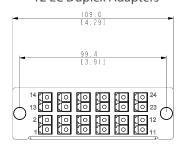
Note:

The transmission of the signal is P2 in and P1 out.

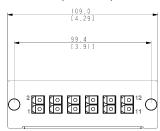


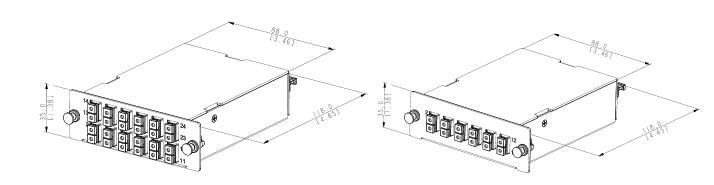
Layout and Dimensions

24F Cassette 12 LC Duplex Adapters



12F Cassette 6 LC Duplex Adapters





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

Ordering Information

А	В	С	D	E	F	G
Fiber Count	Rear Connector	Fiber Mode	Front Connector	Polish Type	Insertion Loss(dB)	Polarity
12F	MPO-12	OS2	LC Duplex	UPC	Elite 0.35	Type A
24F	MPO-24	OM3	SC Duplex	APC	Standard 0.6/0.75	Type AF
		OM4				Type B1

Type B2

Note:

Type B: Multimode cassettes only

SC Adapter: 12-Fiber only

MPO Connector (Single mode): APC Polish as default MPO Connector (Multimode): UPC Polish as default



Hot Products

ID	Description
#79399	MPO-12 to 6x LC Duplex, 12 Fibers OS2 Single Mode FHD MPO Cassette, Type A
#79401	MPO-12 to 6x LC Duplex, 12 Fibers OM3 Multimode FHD MPO Cassette, Type A
#79403	2x MPO-12 to 12x LC Duplex, 24 Fibers OS2 Single Mode FHD MPO Cassette, Type A
#79405	2x MPO-12 to 12x LC Duplex, 24 Fibers OM3 Multimode FHD MPO Cassette, Type A
#79407	MPO-24 to 12x LC Duplex, 24 Fibers OS2 Single Mode FHD MPO Cassette, Type A
#79409	MPO-24 to 12x LC Duplex, 24 Fibers OM3 Multimode FHD MPO Cassette, Type A

^{*} More products information please click >

Matching Products

ID	Description
#34684	1U Rack Mount FHD High Density Fiber Enclosure Unloaded, Holds up to 4x FHD Cassettes or Panels
#70361	Upgrading 1U Rack Mount FHD High Density Slide-out Fiber Enclosure Unloaded
#73205	Upgrading 2U Rack Mount FHD High Density Slide-out Fiber Enclosure Unloaded
#73206	Upgrading 4U Rack Mount FHD High Density Slide-out Fiber Enclosure Unloaded
#50550	2-Door 2-Adapter Panel Wall Mount Fiber Enclosure
#70419	1U Rack Mount FHD Modular Fiber Enclosure Panel, Holds up to 4x FHD Cassette or Panels









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