

High-Density Optical EMI Shielding Adapters (with internal safety shutters)

molex

Delivering streamlined behind-panel routings for MT-based interfaces (MXC, MPO/MTP, Prizm MT, HBMT) and eye safety shutters, Molex Optical Electro Magnetic Interference (EMI) Shielding Adapters are ideal for data communications and networking applications that require I/O density

Features and Advantages

Options available:

MPO (MTP) front-interface to MPO(MTP), Prizm MT or HBMT rear-interface

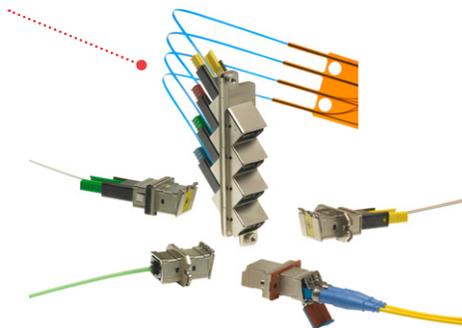
MXC front-interface to Prizm MT or HBMT rear interface

(MXC: series 106250 and MPO (MTP): series 106114)

Provide flexibility in fiber routing. Reduce space requirements inside the box

Metal die-cast housings

Provide EMI protection



Ceramic or phosphor bronze alignment sleeves (where applicable)

Accommodate single-mode (SM) and multi-mode (MM) performance

Safety shutters included

Provide dust protection, eye safety. Reduce EMI when no connector is installed

Multi-port options

Ease space constraints on panel and increase ports within an envelope

Single- and multi-port adapter design (accepts one or four connectors)

Provides for design flexibility

EMI gaskets included

Provide EMI seal between the adapter and mounting surface

Screw- and snap-mount styles available

Provide mounting flexibility



A. MXC to Prizm MT or HBMT 1 Port Adapter

B. MXC to Prizm MT or HBMT 15 Port Adapter

C. MXC to Prizm MT or HBMT 6 Port Adapter

D. MXC to Prizm MT or HBMT 4 Port (Quad) Adapter

E. MXC to Prizm MT or HBMT 8 Port Adapter



A. MPO (MTP) to MPO, MT or HBMT 1 Port Adapter

B. MPO (MTP) to MPO, MT or HBMT 15 Port Adapter

C. MPO (MTP) to MPO, MT or HBMT 6 Port Adapter

D. MPO (MTP) to MPO, MT or HBMT 4 Port (Quad) Adapter

E. MPO (MTP) to MPO, MT or HBMT 45° Quad Adapter

F. MPO (MTP) to MPO, MT or HBMT 8 Port Adapter

Applications

Telecommunication

Data Centers

Hubs

Servers

Routers

Industrial

Test equipment

Aerospace/Defense

Data/Storage

Gigabit Ethernet testing equipment



Molex patented half plastic/half metal LC 1-by-6 adapter design

Improves mating durability compared to full metal or plated plastic



1-by-6 LC adapter fits vertically in 1 RU rack

Provides easy implementation

LC 1-by-6-Port Adapter

LC EMI adapter has improved shielding

Optimizes signal integrity for 25 Gbps applications

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Specifications

REFERENCE INFORMATION

Packaging: MTP tray, LC bag
 Mates With: MPO (MTP), HBMT
 Use With: Optical Cable Assemblies and FlexPlane Optical Circuitry
 Designed In: Millimeters

RoHS: Yes
 Halogen Free: Yes

MECHANICAL

Durability (min.): 200-mating cycle

PHYSICAL

Housing: Metal (Zinc) for EMI versions
 Plating: Electro-less Nickel
 Operating Temperature: -40 to +85°C

Ordering Information

MPO (MTP)-to-Prizm MT, -MPO (MTP), -HBMT Adapters

Order No.	Front Interface	Back (rear) Interface	Internal Safety Shutters	No. of Ports	MPO Key Orientation	Mounting Method	Mounting Orientation
106114-1524	MPO (MTP)	MT	Y	4	Up/Up	Screw	Straight
106114-1525				6			
106114-1526				8			
106114-1527				15			
106114-3300	MPO (MTP)	MPO (MTP)	Y	4	Up/Down	Screw	45°
106114-1596				6	Up/Up		Straight
106114-1597				8			
106114-1553				15			
106114-1518	MPO (MTP)	HBMT	Y	4	Up/Up	Screw	Straight
106114-1519				6			
106114-1521				8			
106114-1522				15			

MPO (MTP)-to-MT and HBMT Adapters

Order No.	Front Interface	Back Interface	Shutter	Ports	IP67 Sealed Gasket	Mounting Method
106114-1150	MPO (MTP)	MT	Yes	Simplex	No	Screw Mount
106114-1160						Staggered Screw Mount
106114-1510		HBMT Clip				Screw Mount
106114-1520						Snap Mount
106114-1530				Quad		
106127-0100	LC Duplex Ruggedized	LC Duplex Ruggedized, Ceramic Alignment sleeve	Latching	Duplex	Yes	Screw Mount
106127-0110		LC Duplex Ruggedized, Phosphor Bronze Alignment Sleeve				

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Ordering Information

LC EMI Adapters

Series No.	Back Interface	Mount Style	Mount Angle	Shutter	Mounting Method
106115	Duplex	Screw	45°	One Side	Front
		Snap			
		Screw	Straight	None	
		Snap		One Side	
				Two Sides	
				None	
				One Side	
Two Sides					
Single Screw	45°	One Side	Rear		
106123	Quad		Straight	Front	
106127	Duplex	Screw			
106121-0214	1 by 6	Snap	Straight	One Side	Front
106121-0217				None	

MXC-to-Prizm MT and -HBMT Adapters

Series No.	Front Interface	Back Interface	Shutter	No. of Ports	IP67 Sealed Gasket	Mounting Method
106250	MXC	Prizm MT	Yes	1, 4, 6, 8, 15	No	Screw Mount
		HBMT Clip				

MPO EMI Adapters

Order No.	Cable Type	Mount Style	Mount Angle	Shutter	Mount From
106114-1100	Simplex	Screw	45°	One Side	Front
106114-1200		Snap			
106114-3000		Screw	Straight		
106114-4000		Snap			
106114-0100		Single Screw			
106114-3200	Quad	Screw	45°	None	Rear

SC EMI Adapters

Series No.	Cable Type	Mount Style	Mount Angle	Shutter	Mount From
106116	Simplex	Screw	Straight	One Side	Front
		Snap			Rear
		Screw	45°		
	SC Duplex EMI Adapter	Screw	Straight	Snap-On	Front

www.molex.com/product/emiadapters.html

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