

MPO Pass-Through Cassette

HD footprint · 24F OS2 · 2x MTP-12 to 12x LC · Type A or Method B / Universal



MPC-24-LC-A shown: 12 LC duplex ports on the front (left), printed 1 to 24, and 2 MTP-12 adaptors on the rear (right), numbered 1 to 12 and 13 to 24. MTP 1 (fibers 1-12) feeds front ports 1 to 12 and MTP 2 (fibers 13-24) feeds 13 to 24.

OVERVIEW

Plug-and-play MPO to LC in one HD slot

The One Optics MPO pass-through cassette takes two 12-fiber MTP trunks at the back and presents 24 singlemode fibers as 12 LC duplex ports at the front. It is factory terminated and tested, so a high-density link goes live by plugging in a trunk instead of splicing in the field.

It comes in two polarity versions: **MPC-24-LC-A** (Type A, straight through) for Type A and Type C trunks, and **MPC-24-LC-U** (Polarity Method B / Universal) for Type B trunks. The industry also calls Method B cassettes "Universal".

It uses the same 4.29 x 1.38 in front as our HD adaptor plates and drops into the HD1U, HD3U, HD Slim 1U, WMHD2X and WMHD6X enclosures.

24F

OS2 SINGLEMODE

12x

LC DUPLEX FRONT

2x

MTP-12 REAR

0.35 dB

MTP IL MAX

-A / -U

TYPE A / UNIVERSAL

HD

PLATE FOOTPRINT

FEATURES & APPLICATIONS

- ✓ **24 fibers** in one HD-footprint slot
- ✓ **Rear:** 2x US Conec MTP-12 adaptors, pinned (male), APC
- ✓ **Front:** 12x LC/UPC duplex adaptors, blue
- ✓ **Low-loss MTP:** 0.35 dB max insertion loss
- ✓ **Corning G.657.A1** bend-insensitive singlemode fiber inside
- ✓ **Polarity:** Type A (-A) or Method B / Universal (-U)
- ✓ **Pre-terminated and tested** at the factory
- ✓ Lightweight aluminum housing
- ✓ Fits HD1U, HD3U, HD Slim, WMHD2X and WMHD6X
- ✓ **Applications:** 100G+ data center and high-density cross-connect

CONSTRUCTION

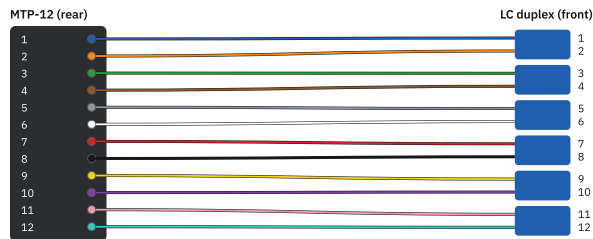
Fiber count	24 fibers
Fiber	Corning OS2 9/125 μm singlemode, G.657.A1 bend-insensitive
Rear connectors	2x US Conec MTP-12 adaptors, male (pinned), APC
Front connectors	12x LC/UPC duplex adaptors, blue
Adaptor sleeves	Zirconia ceramic
Polarity	Type A (MPC-24-LC-A) or Method B / Universal (MPC-24-LC-U)
Housing	Aluminum (5052)
Size (H x W x D)	1.38 x 4.29 x 4.64 in [35 x 109 x 118 mm]

PERFORMANCE

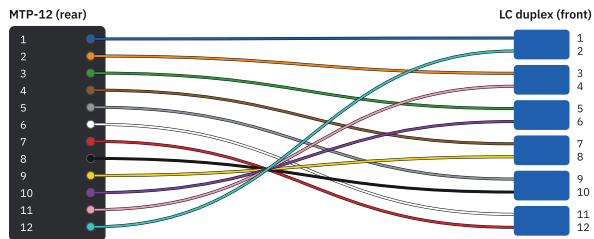
Insertion loss, MTP	0.35 dB max
Insertion loss, LC	0.2 dB max
Return loss, MTP	60 dB min
Return loss, LC	50 dB min
Operating temperature	14 to 140 °F [-10 to 60 °C]
Storage temperature	14 to 140 °F [-10 to 60 °C]

FIBER MAPS

Type A · MPC-24-LC-A · fiber 1 to LC position 1

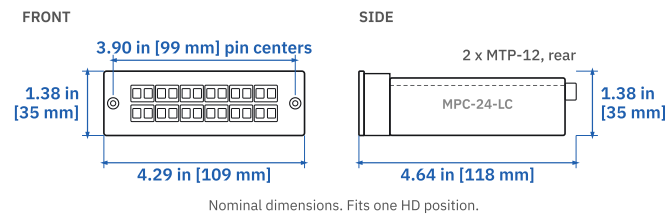


Method B / Universal · MPC-24-LC-U · LC port 1 = fibers 1 and 12



Each rear MTP-12 feeds six front LC duplex ports. **Type A** runs straight through: fiber 1 to position 1, fiber 2 to position 2, on to fiber 12. **Method B / Universal** pairs the outer fibers: LC port 1 carries fibers 1 and 12, port 2 fibers 2 and 11, on to port 6 with fibers 6 and 7. Fiber colors follow TIA-598. **When to use MPC-24-LC-U:** at both ends of a Type B MPO trunk (Method B), with A-to-B LC cords at both ends; the usual choice for new builds. Use MPC-24-LC-A with Type A or Type C trunks (Methods A and C).

DIMENSIONS



FITS THESE ENCLOSURES

ENCLOSURE	TYPE	SLOTS
HD1U	1U rack mount	4
HD3U	3U rack mount	12
HD Slim (HDS1U)	1U slim rack mount	4
WMHD2X	Wall mount	2
WMHD6X	Wall mount	6

Mix with HD adaptor plates and splice cassettes in the same chassis.

ORDERING

Part number format **MPC-24-LC-[polarity]** A = Type A straight-through · U = Polarity Method B / Universal

PART NUMBER	DESCRIPTION	PRICING
MPC-24-LC-A	Pass-through cassette, 24F OS2, 2x MTP-12 (male, APC) to 12x LC/UPC duplex, Type A	Contact sales
MPC-24-LC-U	Pass-through cassette, 24F OS2, 2x MTP-12 (male, APC) to 12x LC/UPC duplex, Method B / Universal	Contact sales

Contact sales for pricing. Test data and certificate of conformance available on request. Specifications subject to change. Rev A · 2026-10.