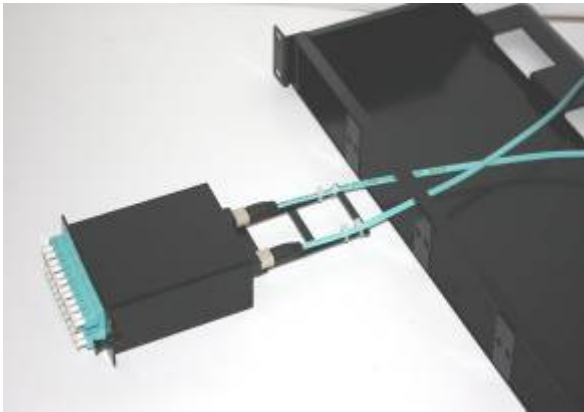


# Data Centre Solutions

## MPO Connectivity with Multimode OM3 or OM4 or singlemode OS2 fibre



This preterminated system has been designed to meet the needs of high performance data centre cabling giving simple installation with high port density.

The patented modular construction combines highest port density with the typical 3M ease of installation.

The 19" sub-rack patch panel accommodates up to four pre-connected modules with a port density of 24 LC connections per module. A total of 96 LC connectors can be connected on one height unit. The rear side of each module has two entry ports for 12 fibre MPO backplane cables.

The strain relief of the MPO backplane cable can be fixed with cable ties directly on the backplane of the modules. This allows full front access termination without the need to remove the 19" sub-rack and does not require a two part sliding construction of the sub-rack.

These installer friendly modules are available as pre-terminated 12 port MPO/LC duplex or as 12 port LC/LC duplex straight through versions.

The connection between two panels is made by either MPO/MPO or MPO/LC pre-terminated trunk 12 fibre cables with either multimode OM3, OM4 or singlemode OS2 fibres inside. The same fibre is used in the modules.

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### Features

- LC duplex connectivity
- Modular design
- Patented strain relief on the module backplane
- Pre-assembled modules
- Pre-connectorized MPO trunk cables
- EIA/TIA Version B cabling
- Low loss component line

### Benefits

- High port density of 48 (96 LC connectors) ports on 1U
- Flexibility for re-arrangements
- Full front access, no removal of patch panel required
- Ease of installation, no risk of fibre breakage
- Plug and play
- No need for crossover patch cords
- Link loss suitable for high data rate transmission

## Specifications



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Empty 19" Sub-rack, for 4 each MPO/LC or LC/LC modules	Powder coated steel, structured, RAL 9005, black Dimensions: 443,2 x 250 x 44 mm (W x D x H) Accessories : 4 each cage nuts, 4 each cheesehead screws, 6mm.
MPO 12 Module, 12 ports LC duplex B, MM 50/125, OM3 or OM4, SM OS2	Powder coated steel, structured, RAL 9005, black Dimensions: 206 x 108x 38mm (W x D x H) Pre-assembled EIA/TIA Version B, 50/125µm OM3 or OM4 fibre, B-type MPO coupling key up-key up. Type 1 or Type 2 cassette* Accessories: 4 cable ties
LC-Faceplate with 12 LC duplex couplings, OM3	Powder coated steel, structured, RAL 9005, black Dimensions: 206 x 108x 38mm (W x D x H) Pre-assembled with 12 LC duplex couplings, OM3, open structure Accessories: 4 cable ties
Blind Cover for unused MPO module ports	Powder coated steel, structured, RAL 9005, black
MPO 12/MPO 12 Trunk Cable, OM3, OM4 or OS2 Type B	Pre-connectorized MPO/MPO fibre trunk cable with 12 each 50/125µm OM3 or OM4 or SM OS2 fibres. Length: 5m, 10m, 20m, 30m, 40m, other lengths on request
MPO 12/12x LC Trunk Cable, OM3, OM4 or OS2, Type B	Pre-connectorized MPO/LC fibre trunk cable with 12 each 50/125µm OM3 or OM4 or SM OS2 fibres Length: 5m, 10m, 20m, 30m, 40m, other lengths on request

\* Type I cassettes and Type II cassettes are used at opposite ends of a link to ensure correct polarity

Jacket Colour	Aqua
Jacket material	LSZH
Connector intermateability, MPO	IEC 61754-7-1
Connector intermateability, LC	IEC.61754-20
Operating temperature	-20°C to +70°C
Insertion loss MPO, typical (dB)	0,35
Insertion loss MPO, max. (dB)	0,75
Insertion loss LC, typical (dB)	0,20
Insertion loss LC, max. (dB)	0,40

Ordering Information	Ref. No.	
	<p>19" Subrack, for 4 MPO modules</p>	<p>M-P4</p>
	<p>MPO 12 Module, 12 ports LC duplex B, Type I, MM 50/125 OM3  MPO 12 Module, 12 ports LC duplex B, Type II, MM 50/125 OM3  MPO 12 Module, 12 ports LC duplex B, Type I, MM 50/125 OM4  MPO 12 Module, 12 ports LC duplex B, Type II, MM 50/125 OM4  MPO 12 Module, 12 ports LC duplex B, Type I, MM 50/125 OS2  MPO 12 Module, 12 ports LC duplex B, Type II, MM 50/125 OS2</p>	<p>M-MS-I-OM3  M-MS-II-OM3  M-MS-I-OM4  M-MS-II-OM4  M-MS-I-OS2  M-MS-II-OS2</p>
	<p>LC-Faceplate with 12 LC duplex couplings</p>	<p>M-FLC</p>
	<p>Blind Cover for MPO module ports</p>	<p>M-BC</p>
	<p>Patchcord Management Panel</p>	<p>P33410AA</p>

Ordering Information		Ref. No.
 <p>Trunk cable 10m or less</p>	MPO 12/MPO 12 Trunk Cable, 5m, OM3, Type B MPO 12/MPO 12 Trunk Cable, 5m, OM4, Type B MPO 12/MPO 12 Trunk Cable, 5m, OS2, Type B	M-12-5-OM3-B M-12-5-OM4-B M-12-5-OS2-B
	MPO 12/MPO 12 Trunk Cable, 10m, OM3, Type B MPO 12/MPO 12 Trunk Cable, 10m, OM4, Type B MPO 12/MPO 12 Trunk Cable, 10m, OS2, Type B	M-12-10-OM3-B M-12-10-OM4-B M-12-10-OS2-B
 <p>Trunk cable over 10m</p>	MPO 12/MPO 12 Trunk Cable, 20m, OM3, Type B MPO 12/MPO 12 Trunk Cable, 20m, OM4, Type B MPO 12/MPO 12 Trunk Cable, 20m, OS2, Type B	M-12-20-OM3-B M-12-20-OM4-B M-12-20-OS2-B
	MPO 12/MPO 12 Trunk Cable, 30m, OM3, Type B MPO 12/MPO 12 Trunk Cable, 30m, OM4, Type B MPO 12/MPO 12 Trunk Cable, 30m, OS2, Type B	M-12-30-OM3-B M-12-30-OM4-B M-12-30-OS2-B
	MPO 12/MPO 12 Trunk Cable, 40m, OM3, Type B MPO 12/MPO 12 Trunk Cable, 40m, OM4, Type B MPO 12/MPO 12 Trunk Cable, 40m, OS2, Type B	M-12-40-OM3-B M-12-40-OM4-B M-12-40-OS2-B
	LC/MPO 12 Trunk Cable, 5m, OM3, Type B LC/MPO 12 Trunk Cable, 5m, OM4, Type B LC/MPO 12 Trunk Cable, 5m, OS2, Type B	M-LC-12-5-OM3-B M-LC-12-5-OM4-B M-LC-12-5-OS2-B
	LC/MPO 12 Trunk Cable, 10m, OM3, Type B LC/MPO 12 Trunk Cable, 10m, OM4, Type B LC/MPO 12 Trunk Cable, 10m, OS2, Type B	M-LC-12-10-OM3-B M-LC-12-10-OM4-B M-LC-12-10-OS2-B
	LC/MPO 12 Trunk Cable, 20m, OM3, Type B LC/MPO 12 Trunk Cable, 20m, OM4, Type B LC/MPO 12 Trunk Cable, 20m, OS2, Type B	M-LC-12-20-OM3-B M-LC-12-20-OM4-B M-LC-12-20-OS2-B
	LC/MPO 12 Trunk Cable, 30m, OM3, Type B LC/MPO 12 Trunk Cable, 30m, OM4, Type B LC/MPO 12 Trunk Cable, 30m, OS2, Type B	M-LC-12-30-OM3-B M-LC-12-30-OM4-B M-LC-12-30-OS2-B
	Other lengths on request	

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