



Modular Photonics

Compact Mode Selective Solutions

www.modularphotonics.com

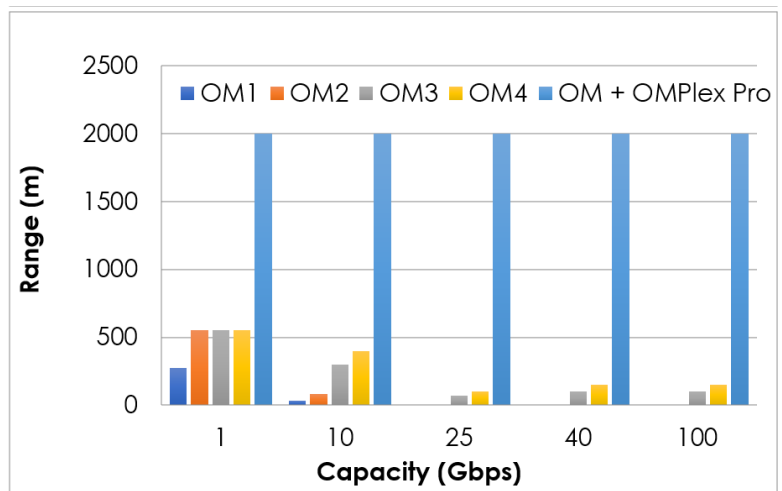
OMPlex Pro Series

Key Features

- Cost-effective alternative to recabling for future-proofing multimode fibre networks
- Single-mode performance in legacy OM multimode fibre
- Up to 1000× enhancement in data rate
- Simple installation
- Telecom reliability
- Dual-Band: 1310 nm, 1550 nm
- Compatible with CWDM and DWDM
- Compact module or 1U 19" rack form factor

Applications

- Retrofitting any OM1-4 multimode fibre network
- Data centres, multi-building campuses, hospitals, sports arenas, etc



OMPlex Pro - Single-mode performance without recabling.

Connecting OMPlex devices to the ends of OM multimode fibre enables single-mode fibre performance to be realized across legacy multimode fibre. OMPlex by Modular Photonics allows for future-proofing your optical fibre networks without recabling, allowing for state-of-the-art data rates and transmission ranges. OMPlex devices provide ease of installation and telecom grade reliability.

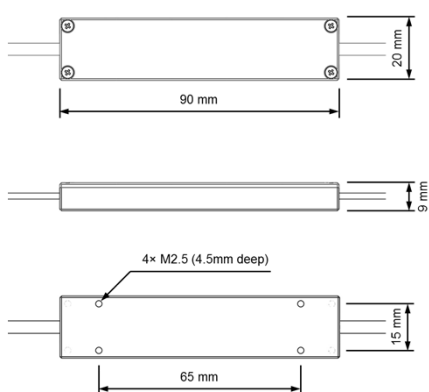
CONTACT

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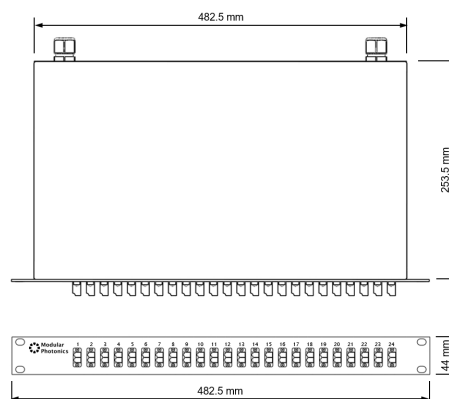
Specifications | OMPlex Pro Series

Single-Mode Performance over Multimode Fibre

OMPlex by Modular Photonics enables exclusive excitation of the fundamental mode in multimode optical fibres. By connecting OMPlex devices onto the ends of multimode fibre, state-of-the-art single-mode transceivers can be operated across the legacy multimode fibre network, improving the capacity and transmission reach by up to 1000x. The OMPlex series is suitable for OM1, 2, 3 and 4 fibre and is available with all standard fibre optic connectors. The OMPlex Pro performance has been validated using up to 100G-LR4 transceivers. The technology uses high-precision connectors, or can be spliced directly onto OM fibre.



OMPlex Pro 2-Core Compact Module



OMPlex Pro 48-Core 1U 19" Rack

Parameter	OM1/2/3/4/5	
	1310 nm	1550 nm
Maximum back-to-back insertion loss*	-3 dB	-3 dB
Typical back-to-back insertion loss*	-2.5 dB	-2.3 dB
Typical single device insertion loss	1.0 dB	0.9 dB
Multipath interference coefficient (mode purity)	< -28 dB	< -28 dB
Operating temperature	-5 to 70 °C	
Storage temperature	-40 to 85 °C	
Maximum input power	300 mW	
Humidity range	5 to 85%	
Compatibility	IEC 60793, IEC 61754	

*Using fibre connectors between devices.

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