

tML<sup>®</sup> - Fiber Optic TAP Module MPO/MTP<sup>®</sup> w. Pins 1x 9/125µ OS2 40GBASE-LR4 30:70



## tML<sup>®</sup> 24

tML<sup>®</sup> 24 is a patented, modular cabling system consisting of the three key components module, trunk cable and rack mount enclosure. The system components are 100 percent manufactured, pre-assembled and tested in Germany. They enable plug-and-play installation on site – especially in data centres, but also in industrial environments – within the shortest possible time. Heart of the system are the rear MPO/MTP<sup>®</sup> 24 fiber and Telco connectors, which can be used to connect at least six or twelve ports at a time. Depending on the module configuration, transfer rates of up to 400G are currently possible with SR4. The fibre optic and TP modules can be used together in a module carrier with a very high port density. The tde offers its tML<sup>®</sup> cabling system as a proven tML<sup>®</sup> standard system and in the highly innovative variants tML<sup>®</sup>Xtended and now tML<sup>®</sup> 32 for extreme scalability and very easy migration to higher transmission rates such as 40G, 100G, 200G and 400G.

The tML<sup>®</sup> - FO TAP Module is intended for the installation in the tML<sup>®</sup> Rack Mount Enclosure 1U (for 8 x Modules).



**tde<sup>®</sup> trans data elektronik GmbH**

**Headquarter address:**

Lingener Str. 2  
D-49626 Bippen/Ohrte  
Tel.: +49 5435 9511 0  
Fax.: +49 5435 9511 32

**Sales office address:**

Prinz-Friedrich-Karl-Str. 46  
D-44135 Dortmund  
Tel.: +49 231 8805 61 13  
Fax.: +49 231 8805 61 15

info@tde.de | www.tde.de

tML<sup>®</sup> - Fiber Optic TAP Module MPO/MTP<sup>®</sup> w. Pins 1x 9/125µ OS2 40GBASE-LR4 30:70

## Technical Data

Entry	1 x MPO/MTP <sup>®</sup> Adapter with Pins (black) front
Exit	2 x MPO/MTP <sup>®</sup> Adapter with Pins (green) front
Tests	Interferometer, Insertion Loss, Return Loss and Visual Final Inspection; all measured values are electronically archived
	QS-Managementsystem ISO 9001, ISO 14001 and TL 9000

Box	Galvanized steel sheet
Front Panel	Stainless steel
Dimensions	110 x 108 x 20 mm

## FO Adapters

Type	MPO/MTP <sup>®</sup>
Application	Singlemode OS2 APC
Design	without Flange
Connector style	SC Simplex
Key Orientation	Type A, Key up/down
Color	Green
Material	Plastic
Sleeve	--
Shutter	--
Standards	IEC 61754-7 TIA 604-5
Manufacturer	US Conec

## FO Adapters

Type	MPO/MTP <sup>®</sup>
Application	Multimode
Design	without Flange
Connector style	SC Simplex
Key Orientation	Type A, Key up/down
Color	Black
Material	Plastic
Sleeve	--
Shutter	--
Standards	IEC 61754-7 TIA 604-5
Manufacturer	US Conec

## FO Connectors

## tML<sup>®</sup> - Fiber Optic TAP Module MPO/MTP<sup>®</sup> w. Pins 1x 9/125μ OS2 40GBASE-LR4 30:70

The end faces of the connectors are optimized by means of Lasercleaving and machine polish. The MPO/MTP<sup>®</sup> plug has a defined fiber height of 1 - 3.5μ. The max. adjacent fiber height difference is 0.2μm and for all fibers 0.3μm.

### Connector

Type	MPO/MTP <sup>®</sup> APC Male Push Pull Locking with Elite Pins (green)
Ferrule	12 Fiber SM Elite <sup>®</sup> ferrule, PPS
Boot colour	Black
Temperature range	-40°C bis +75°C
Manufacturer	tde/US Conec

### Optical Performance

Fiber	Type	Wavelength	Insertion loss typ.	Insertion loss max.	Return loss min.
9/125μ OS2	MPO/MTP <sup>®</sup> APC	1310 / 1550 nm	≤ 0.10 dB	0.25 dB	75 dB

## Product variants & accessories

Art.-No.	Description
TML-M01MPP09E-TAP70	tML <sup>®</sup> - Fiber Optic TAP Module MPO/MTP <sup>®</sup> w. Pins 1x 9/125μ OS2 40GBASE-LR4 30:70