

FO Loopback Connector MPO/MTP[®] with pins 50/125 μ OM4



FO Components

Loopbacks are used primarily as a means to test optical links in networks or devices by "looping back" the connections from the TX (transmit) pairs to the RX (receive) pairs. By doing this, a complete optical link is formed, allowing the optical performance evaluation of a discrete component or a complete link in a network path covering one or more interfaces.

QSFP optical loopbacks offer a female MPO/MTP[®] connector end that mates to any MPO or MTP[®] adapter or device port. The QSFP loopback also can be mated directly to a parallel optical device such as a Quad Small Form-factor Pluggable (QSFP) transceiver with a 4-lane configuration. For multimode applications, an attenuated version of the MPO loopback is available to simulate longer links in a network, with up to 5dB attenuation. With standard or custom pinouts available for 8- to 12-fiber MT ferrules, the QSFP loopback can accommodate specific optical-routing needs. The small and compact housing design allows side-by-side mounting in dense board applications and tight spaces. This design makes it ideal for blades with multiple optical components on a face plate.

MPO/MTP[®] optical loopbacks can be used to test such devices as CXP, QSFP, CFP and other links that use MPO as a form of interconnect in the network. Available in both 12- and 24-fiber configurations, the optical loopbacks offer



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standard and custom mapping.

Technical Data

- Compact in size
- Ease of use with Plug-in technology
- Network diagnosing & testing
- Optional for 12 or 24 fibers MPO with or without Pins

FO Connectors

The end faces of the connectors are optimized by means of Lasercleaving and machine polish. The MPO/MTP[®] 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 [®] Male Push Pull Locking with Elite Pins (magenta)
Ferrule	12 Fiber MM Elite [®] ferrule, PPS
Boot colour	Black
Manufacturer	tde/US Conec

Optical Performance

Fiber	Type	Wavelength	Insertion loss typ.	Insertion loss max.	Return loss min.
50/125µ OM4	MPO/MTP [®]	850 /1300 nm	≤ 0.12 dB	0.25 dB	35 dB

Product variants & accessories

Art.-No.	Description
L-MPP50-3-LOOP	FO Loopback Connector MPO/MTP [®] with pins 50/125µ OM3
L-MPP50-4-LOOP	FO Loopback Connector MPO/MTP [®] with pins 50/125µ OM4