

FO Loopback Connector MPO/MTP[®] without pins 50/125μ OM3



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



tde[®] 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.: +49 231 914 36 99
Fax.: +49 231 914 31 29

info@tde.de | www.tde.de

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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

Connector

| | |
|--------------|--|
| Type | MPO/MTP [®] Female Push Pull Locking (aqua) |
| 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 OM3 | MPO/MTP [®] | 850 nm | ≤ 0.20 dB | 0.35 dB | 25 dB |

Product variants & accessories

| Art.-No. | Description |
|---------------|---|
| L-MP50-3-LOOP | FO Loopback Connector MPO/MTP [®] without pins 50/125μ OM3 |
| L-MP50-4-LOOP | FO Loopback Connector MPO/MTP [®] without pins 50/125μ OM4 |