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

\*\*FO Components

\*\*FO MPO/MTP® Premium

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 standard and custom mapping.

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• 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.

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| --- | --- |
| 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 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 |