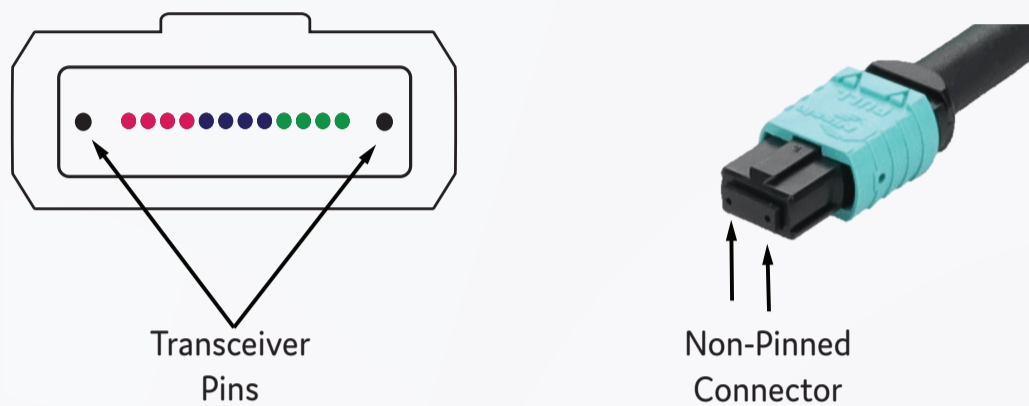


MPO Cable for Parallel Series Transceivers

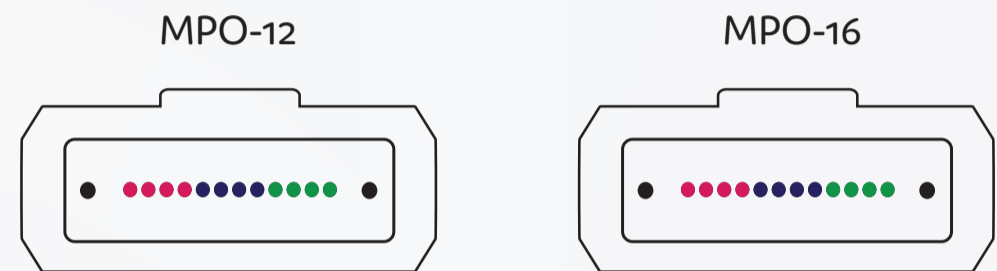
1. Pinned or Un-Pinned

Transceiver interfaces have guide pins for MPO Connectors. Non-pinned or female MPO connectors must be used at the transceiver.



2. MPO-12 or MPO-16

MPO-12 connectors transmit with 4 fibers and receive with 4 in parallel series transceivers. MPO-16 have an offset keyway and transmit with 8 fibers, while receiving with 8 fibers. MPO-12 and MPO-16 are not interchangeable.



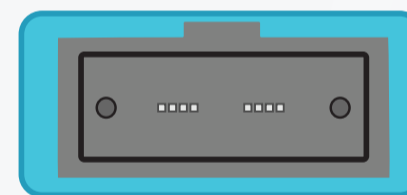
3. Polarity

Connecting two transceivers back-to-back in a single fiber span requires Type B or crossover patch cables. Cross-over patch cables are installed with the key-way up on each end.



4. Fiber Polish

The end-face polish of each fiber is polished in manufacturing to deliver the required back reflection performance. New transceivers for AI and ML environments now require angle-polish or APC multi-mode MPO connectors. Single-mode MPO connectors are APC by default.



PC MPO Connectors
Aqua housing
< -35dB Back Reflection



APC MPO Connectors
Green Housing
(SMF MPO connectors will have either green or yellow)
< -65dB Back Reflection

5. Transceivers by Connector Type

MMF MPO-12 APC
QSFP-DD SR4
OSFP SR4
OSFP 2xSR4

SMF MPO-12 APC
QSFP28 PSM4
QSFP28 PLR4
QSFP56 DR4
QSFP-DD DR4
QSFP-DD DR4+
OSFP DR4
OSFP PLR4

MMF MPO-12 PC
QSFP28 SR4
QSFP56 SR4
QSFP-DD SR4.2

MMF MPO-16 APC
QSFP-DD SR8
OSFP SR8