

MPO/MTP Patch Cord



Features & Benefits

- Fiber count - 12 and 24 fibers
- Suitable for 8 fiber SR4 deployments (12 fiber)
- Type B standard (other polarities available)
- Female – Female standard (hybrid variants available)
- Compact cable for easy routing
- Bend-insensitive/bend optimized fibers
- Plenum (OFNP / FT6), LSZH Riser OFNR (FT-4-ST1)
- OS2, OM3 and OM4 performance types
- Colored outer jacket to denote performance
- Ultra-low loss connector performance



Overview

MPO/MTP patch cords provide the connection to equipment transceivers on switches or servers that use an MPO interface such as the QSFP (SR4). These patch cords can either be added to the end of permanent structured cabling links or they can be used to connect two pieces of equipment directly. MPO/MTP patch cords are supplied as standard with female connectors and a Type B polarity. This configuration is essential when connecting to male (pinned) transceivers not only from a gender perspective but also a transmit/receive functionality standpoint. Other configurations are available to suit legacy backbone cabling that requires a male (pinned) patch cord or a Type A polarity.

Technical data

Mechanical Specifications

Specification	Value	
	12 fiber	24 fiber
Design	1 x 12 bare fiber	2 x 12 bare fiber
Cable nominal diameter in (mm)	2.0mm or 3.0mm \pm 0.2	3.6mm \pm 0.2
Maximum installation tension (N)	200	440
Max operation tension (N)	66	132
Min. bend-radius with tension (mm)	10 x cable \varnothing	
Min. bend-radius under max. tension (mm)	20 x cable \varnothing	

Optical Specifications

Specification	Value	
Fiber category	OS2 - 9/125 bend insensitive	OM3/4 bend-optimized
Channel IL (LL/Low Loss)	Single-mode OS2 \leq 1.5dB	Multi-mode OM3/OM4 \leq 0.70dB
Channel IL (ULL/Ultra Low Loss)	Single-mode OS2 \leq 0.70dB	Multi-mode OM3/OM4 \leq 0.50dB
Channel RL (Return Loss)	Single-mode OS2 UPC \geq 50dB Single-mode OS2 APC \geq 60dB	Multi-mode OM3/OM4 \geq 30dB

Environmental Data

Specification	Value
Installation	LSZH (-10 °C to 60 °C; 14 °F to 140 °F), PLENUM (0 °C to 60 °C; 32 °F to 140 °F)
Transport and storage	-40 °C to 70 °C (-40 °F to 158 °F)
Operation	LSZH (-20 °C to 70 °C; -4 °F to 158 °F), PLENUM (0 °C to 70 °C; 32 °F to 158 °F)
Free of halogen	Yes
2011/65/EC RoHS	Fully compliant

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MPO/MTP Patch Cord



Ordering Information

PC

1 2 3 4 5 6 7 8

1. Connector end A (left side)

30 = MTP 8 fiber Female (no pins)
31 = MTP APC 8 fiber Female (no pins)
32 = MTP 8 fiber Male (pinned)
33 = MTP APC 8 fiber Male (pinned)
34 = MPO PLUS Universal 8 fiber Female (no pins)
35 = MPO PLUS APC Universal 8 fiber Female (no pins)
36 = MPO PLUS Universal 8 fiber Male (pinned)
37 = MPO PLUS APC Universal 8 fiber Male (pinned)
40 = MTP 12 fiber Female (no pins)
41 = MTP APC 12 fiber Female (no pins)
42 = MTP 12 fiber Male (pinned)
43 = MTP APC 12 fiber Male (pinned)
44 = MPO PLUS Universal 12 fiber Female (no pins)
45 = MPO PLUS Universal APC 12 fiber Female (no pins)
46 = MPO PLUS Universal 12 fiber Male (pinned)
47 = MPO PLUS Universal APC 12 fiber Male (pinned)
60 = MTP 24 fiber Female (no pins)
61 = MTP APC 24 fiber Female (no pins)
62 = MTP 24 fiber Male (pinned)
63 = MTP APC 24 fiber Male (pinned)
64 = MPO PLUS Universal 24 fiber Female (no pins)
65 = MPO PLUS APC Universal 24 fiber Female (no pins)
66 = MPO PLUS Universal 24 fiber Male (pinned)
67 = MPO PLUS APC Universal 24 fiber Male (pinned)

2. Performance

L = Multi-mode Low Loss
M = Multi-mode Ultra Low Loss
S = Single-mode Standard
T = Single-mode Low Loss

3. Connector side B (right side)

XX = See table for Side A

4. Cable type

L = Low smoke zero halogen
P = Plenum rated
R = Riser rated

5. Cable size

20 = Cable size 2.0mm round
30 = Cable size 3.0mm round
36 = Cable size 3.6mm round

6. Polarity

A = Type A polarity for MTP/MPO
B = Type B polarity for MTP/MPO

7. Fiber type

Z = Single-mode G657 (A1/A2) PLENUM only
2 = Single-mode G657 (A2)
3 = Multi-mode OM3
4 = Multi-mode OM4

8. Length in meters

005 = 0.5m
050 = 5.0m
500 = 50.0m