

## **MPO Patch Cord**

# DATA SHEET

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### **MPO Patch Cord**

Webb MPO patch cords are designed to provide connections to equipment transceivers, on switches or servers that use an MPO interface such as the QSFP. They are compact in size to provide improved scalability in heavy transmission networking environments, making them cost-effective and efficient.

MPO connectors can contain anywhere from 4 to 24 fibers, with 12-fiber arrays being the most common for enterprise data center applications like 40G and 100G.

#### **Technical specifications**

- Compatible with QSFP models
- Available in single mode and multi-mode types
- Available in straight, reversed, and flipped pair polarities
- Available in 4G 200G QSFP connectivity range
- Available in round or flat types
- Available with 4 24 cores, fibre count
- End one connector available in MPO male or MPO female types
- End two connector available in, MPO male, MPO female, SC, LC, FC, ST types
- Maximum insertion loss: <0.75dB, <0.5dB</p>
- Return loss: UPC≥55dB, APC≥60dB
- Durability: maximum 500 mating cycles
- Operating temperature: -40°C ~ 80°C

#### **Applications**

- Local area networks
- Telecommunication networks
- CATV/CCTV systems
- FTTx networks

\*Specifications are subject to change without notice based on technical recommendations and related product enhancements



#### **Structure of the MPO connector**



**Male connector** 

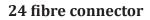


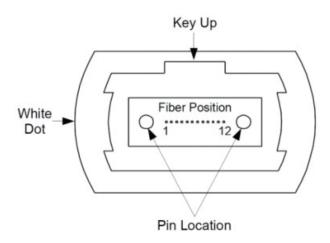
**Female connector** 



12 fibre connector



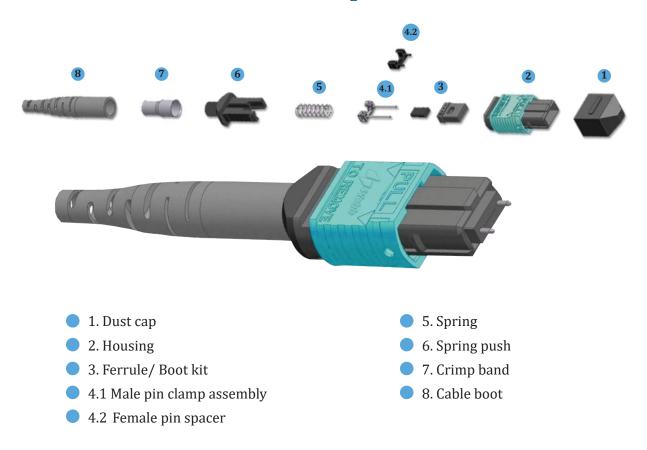




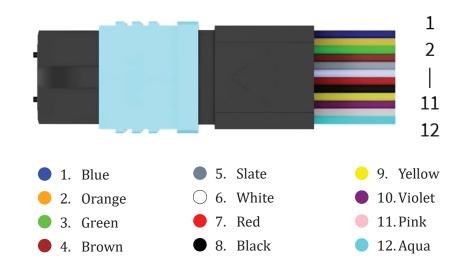
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Internal structure of the MPO patch cord



#### Internal cable colour code of MPO patch cord



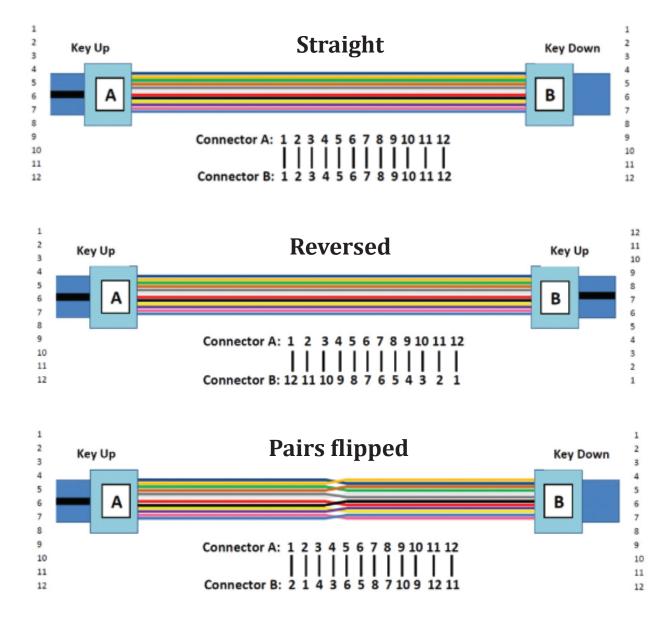
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#### **MPO Polarities**

There are three different types of MPO cable polarities:

The straight type cables come with a key-up connector on one end and a key-down connector on the other end that results in the fiber located in position 1 arriving at position 1 at the other end. Reversed type cables are key up to key up so that the fiber located in position 1 arrives at position 12 at the opposite end. Flipped pair cables flip the pairs so that the fiber in position 1 arrives at position 2 at the opposite end and the fiber in position 2 arrives at position 1.



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#### **MPO PATCH CORD PART NUMBER KEY**

Part Number: C.05.PC.MPO.\_.\_ \_\_\_\_

C.05.PC.MPO.Mode.End one.End two.Angle.fibre.length.Thickness.QSFP range.Cable type.Polarity

Please add the codes from the tables below in the above format to derive at your desired product part number

Code
S1
S2
M1
M2
M3
M4

QSFP range	Code
4 Gbit/s QSFP	04
40 Gbit/s QSFP+	40
50 Gbit/s QSFP14	50
100 Gbit/s QSFP28	100
200 Gbit/s QSFP56	200

Code
MM
MF

End two	
Connector	Code
FC	FC
SC	SC
ST	ST
LC	LC
MPO male	MM
MPO female	MF

Angle(End two)

Code

U

А

Μ

Fibre		
No of fibres	Code	
04	04	
06	06	
08	08	
12	12	
24	24	
Custom	Specify	

Length(m)	Code
01	01
03	03
05	05
10	10
15	15
30	30
Custom	Specify

Thickness(mm)	Code
0.9	9
2	2
2.8	8
3	3
Custom	Specify

Cable type	Code
Round	R
Flat	F

Polarity	
Туре	Code
Stright	S
Reverse	R
Flipped	F

\* Minimum order quantities may be applicable for non stock items

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Angle

UPC

APC

MPO