

# **MPO-MPO Patch Cord Specification**

## **MPO-MPO Patch Cord**

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**Optical Fiber Cable & Connection Department**

## 1 Features

### 1. Features

MTP, MPO available

8/12/24/16/32F Fiber

SM, OM3/OM4/OM5 available

0.35dB low loss connector

Pulling eyes are provided as an option to protect the cable & connector during installation

Migration for 10G/40G/100G/200G/400G

TIA/IEC standards compliant

Comply with RoHS/REACH requirement

### 2. Application

Data Center Interconnect

High-Density Cross Connect

Backbone Installation

Telecommunication Networks

Broadband/CATV Networks

Test Labs

LAN/WAN

### 3. Type

8/12/24/16/32F Fiber: MTP/MPO

## 2 Diagram

### 1. Diagram

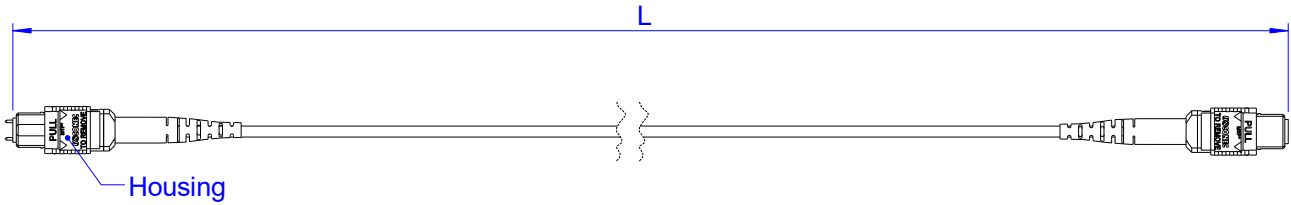


Figure 2.1 MTP-MTP Patch Cord

Notes:

1.  $L \leq 1\text{m}$ , tolerance =  $\pm 0.05\text{m}$ .  $1 < L < 20\text{m}$ , tolerance =  $\pm 0.10\text{m}$ .  $L \geq 20\text{m}$ , tolerance =  $\pm L * 1\%$ .
2. The connector type in the figure is for reference only, MTP/MPO(Male/Female) connectors are available.
3. Customized polarity is available.

### 2. 12F Polarity

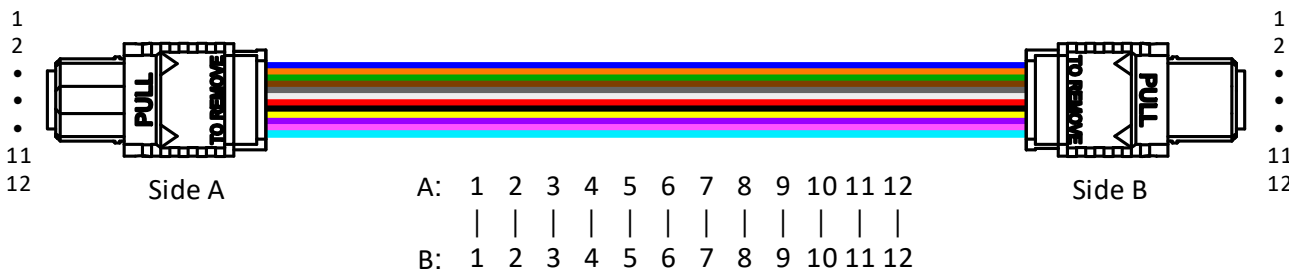


Figure 2.2 Type A: Key UP to Key Down (12F)

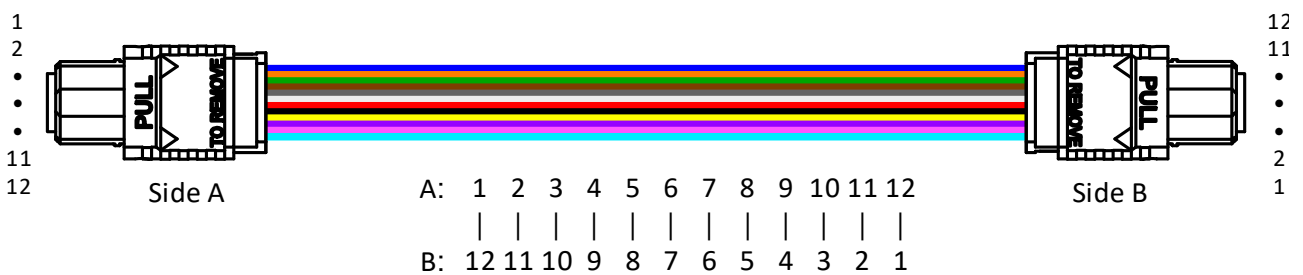


Figure 2.3 Type B: Key UP to Key Up (12F)

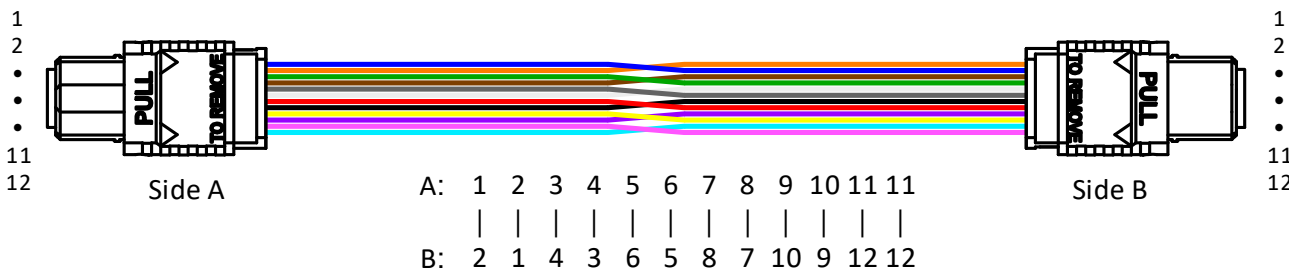


Figure 2.4 Type C: Key UP to Key Down (12F)

### 3. 24F Polarity

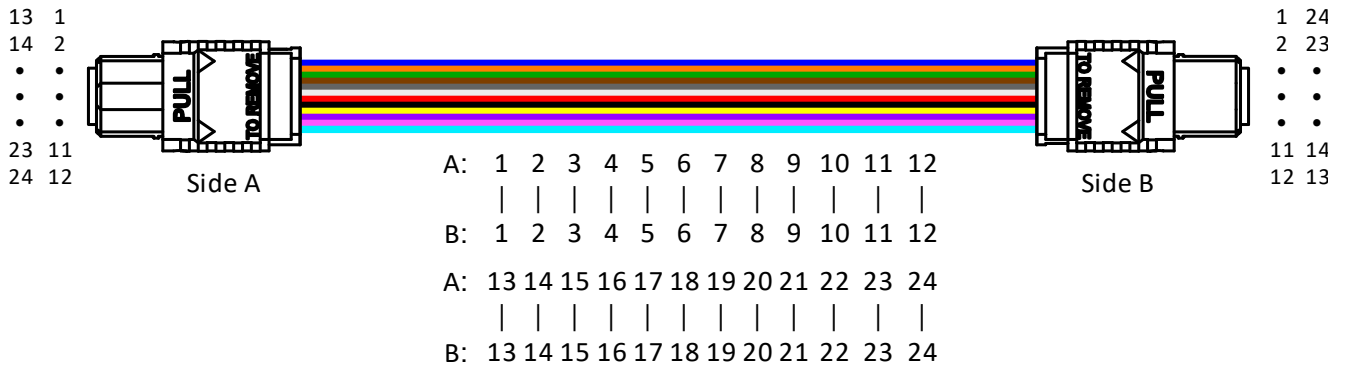


Figure 2.5 Type A: Key UP to Key Down (24F)

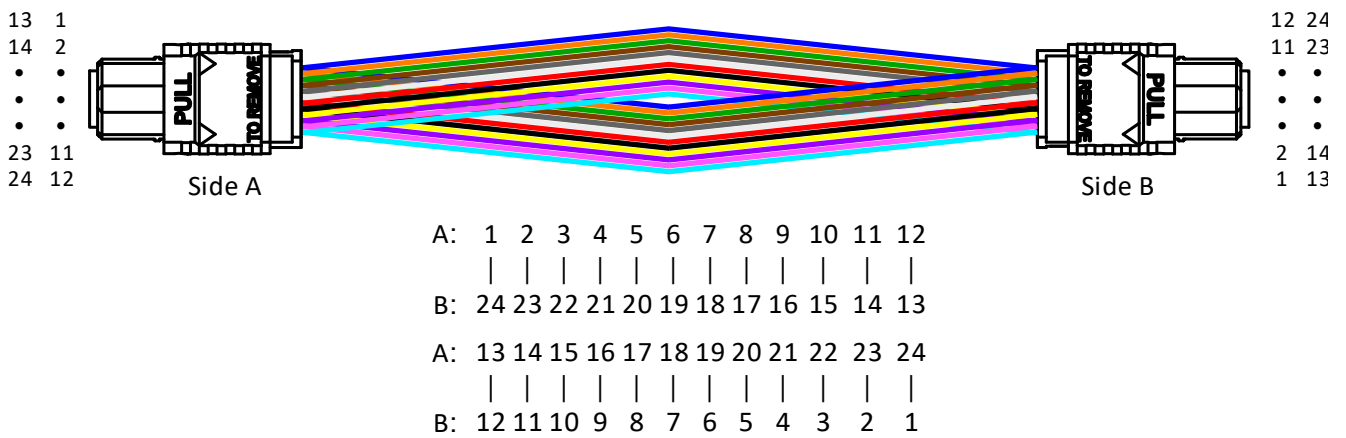


Figure 2.6 Type B: Key UP to Key Up (24F)

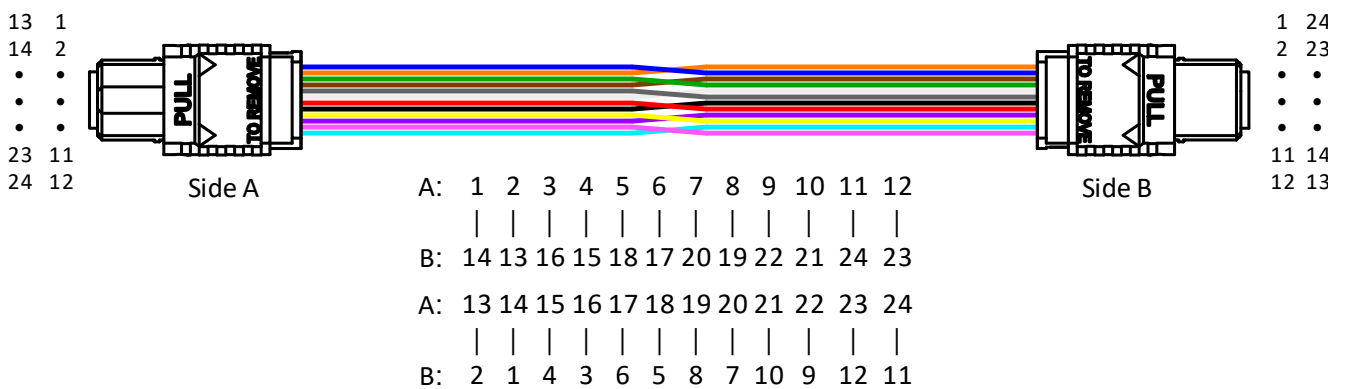


Figure 2.7 Type C: Key UP to Key Down (24F)

### 3 Optical Performance

Table 3.1 MPO-MPO Patch Cord Specification

Parameters	Units	Specifications	
Test Wavelength	nm	Multi-Mode	850/1300
		Single Mode	1310/1550
Fiber Type	/	G657A1/ OM3/OM4/OM5	
Cable Outside Diameter	/	Ribbon/Flat cable/Φ3.0mm etc.	
Cable Jacket	/	LSZH/OFNP/OFNR	
Jacket Color	/	G657A1	Yellow
		OM3	Aqua
		OM4	Aqua/Violet
		OM5	Lime Green
Insertion Loss	dB	Standard Loss	≤0.70
		Low Loss	≤0.35
Return Loss	dB	Multi-Mode	≥25
		Single Mode	≥50(PC) ≥60(APC)
Polarity	/	TIA-568.3 Type A, Type B, Type C	
Operating Temperature	°C	-10~+70	
Storage Temperature	°C	-40~+85	