



# Data-Sheet

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## MPO to MPO Breakout Trunk Cable Assembly

# MPO Multifiber Breakout Trunk Cable MPO(F) - MPO(F)

JTOPTICS MPO pre-terminated Trunk Cables are designed for high density application which offers excellent benefits in terms on-site installation time and space saving. The trunk cable assemblies are composed of high quality LSZH jacketed fiber optic cables used in data center, telecom and backbone application for 40G, 100G, 400G & 800G connectivity.



JTOPTICS has been providing high-quality pre-terminated cables for indoor and/or outdoor applications, with fanout number ranging from 12 to 144. Our indoor/outdoor non-armoured Pre-Terminated Fiber Optic Cable Assemblies are great choices for multiple applications inside or outside.



## 100% 3D Interferometer Test

Besides insertion loss, 3D geometry data affects the performances for MPO cable assemblies. 3D control for MT ferrule is more complex than normal ceramic ferrule. JTOPTICS tests 3D 100% for all MPO cables strictly.

It provides conversion from 48 to 48 / 72 to 72  
Fibers connectivity for 100% Utilization of  
fibers.

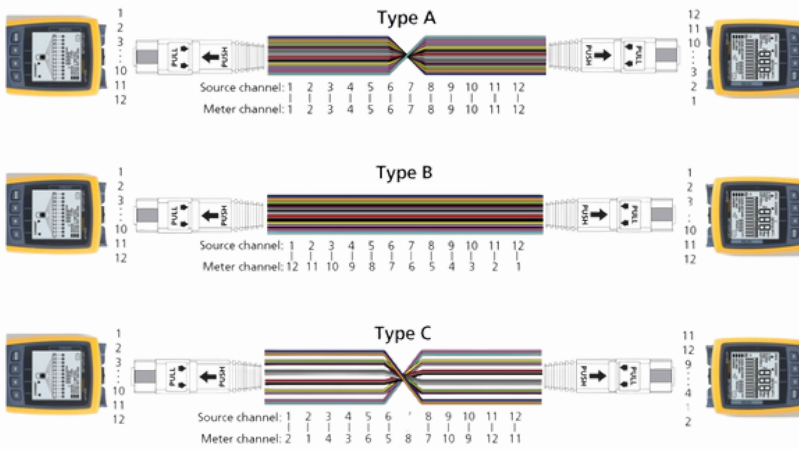


- Lower Insertion Loss & Higher Performance
- Complied to ANSI/TIA-568-C.3, IEEE 802.3ba and adheres to ANSI/TIA-942
- Low IL and stable signal transmission ensuring your network safety
- High-quality MPO connectors and guaranteed by 3D interferometer



<b>Name</b>	48 Fiber 4 x 12 MPO Single Mode OS2 to 4 x 12 MPO Trunk Cable	48 Fiber 4 x 12 MPO Multi Mode OM4 to 4 x 12 MPO Trunk Cable	72 Fiber 6 x 12 MPO Single Mode OS2 to 6 x 12 MPO Trunk Cable	72 Fiber 6 x 12 MPO Multi Mode OM4 to 6 x 12 MPO Trunk Cable
<b>Part Code</b>	JTMPS24412MOSFMOSFXX	JTMPM44412MOSFMOSFXX	JTMPS26612MOSFMOSFXX	JTMPM46612MOSFMOSFXX
<b>Connector A</b>	4 x MPO Female (12 Fiber) APC	4 x MPO Female (12 Fiber) UPC	6 x MPO Female (12 Fiber) APC	6 x MPO Female (12 Fiber) UPC
<b>Connector B</b>	4 x MPO Female (12 Fiber) APC	4 x MPO Female (12 Fiber) UPC	6 x MPO Female (12 Fiber) APC	6 x MPO Female (12 Fiber) UPC
<b>Cable Jacket</b>	LSZH	LSZH	LSZH	LSZH
<b>Jacket OD</b>	5mm	5mm	6mm	6mm
<b>Fiber Mode</b>	Single Mode (OS2 9/125µm)	Multimode (OM4 50/125µm)	Single Mode (OS2 9/125µm)	Multimode (OM4 50/125µm)
<b>Wavelength</b>	1310/1550nm	850/1300nm	1310/1550nm	850/1300nm
<b>Insertion Loss</b>	0.35dB Max	0.7dB Max	0.35dB Max	0.7dB Max
<b>Return Loss</b>	≥60dB	≥30dB	≥60dB	≥30dB
<b>Installation Tensile Load</b>	100 N	100 N	100 N	100 N
<b>Long-Term Tensile Load</b>	50 N	50 N	50 N	50 N
<b>Operating Temp Range</b>	-10°C to +70°C	-10°C to +70°C	-10°C to +70°C	-10°C to +70°C
<b>Storage Temp Range</b>	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
<b>Minimum Bend Radius</b>	30mm	30mm	30mm	30mm
<b>Connector Make</b>	JTOPTICS	JTOPTICS	JTOPTICS	JTOPTICS
<b>Connector Quality</b>	Elite	Standard	Elite	Standard
<b>Polarity</b>	B Type	B Type	B Type	B Type
<b>Applications</b>	High Density Data Center backbone connectivity	High Density Data Center backbone connectivity	High Density Data Center backbone connectivity	High Density Data Center backbone connectivity

### Trunk/Patch Cord Polarity



MTP is a registered trademark of US Connect, The MTP connector offers ferrule float to improve mechanical performance. MPO and MTP are 100% compatible.

\*\*Standard Breakout Length is 0.5 Meter for custom length contact sales team.



**IL and RL Testing**  
Evaluate insertion loss and return loss of cables to ensure high-quality and stable signal transmission.

**Polarity Testing**  
Measure the polarity to ensure data from Tx at one end can be properly transmitted to Rx at the other end via light signals.



**End-face Inspection**  
Inspect the connector end face for scratches, defects and contamination to ensure reliable fiber connections.

### Optional Connector

MPO Push-Pull Connector



MPO Flex-Boot Connector



# About JT

In the dynamic realm of technology and innovation, the emergence of **Jayani Technologies Limited** has been nothing short of a saga marked by ingenuity, resilience, and a steadfast commitment to excellence. Originating as Jayani Technologies LLP in 2011 in the vibrant city of Mumbai, India, the company has evolved into a trailblazer in its domain. This narrative unfolds against the backdrop of the company's expansion into Hong Kong, a strategic move signaling its intent to conquer new horizons.

Established in 2011, Jayani Technologies (**JTOPTICS**<sup>®</sup>) was conceived as a response to the evolving technological landscape, recognizing the need for cutting-edge solutions that marry innovation with reliability. The Mumbai headquarters became the crucible for the company's early endeavor, a melting pot of talent and vision that propelled Jayani Technologies into the forefront of its industry and emerged as a leading manufacturer and supplier of cutting-edge solutions in the fields of optical Fiber, data center, networking, and electric vehicle components.

From its inception, the company distinguished itself by its unwavering commitment to client satisfaction, a commitment that became the cornerstone of its success. Jayani Technologies quickly became synonymous with technological prowess and an unwavering dedication to delivering solutions that transcended conventional boundaries.

JTOPTICS<sup>®</sup> has developed and produced many active and passive interconnection and connectivity products suitable for different networks, aiming to become a one-stop device integration solution provider in the open optical network field, products include MPO Cables, AOC cable, passive DAC cable, optical transceivers, optical modules & subsystems, active & passive optical components, and high-density cabling products.

## **Vision**

Our vision is to be recognized by clients as trustful a trusted business partner whose mission is to help our clients by offering state-of-the-art products and services.

## **Mission**

Our mission is to catalyze the success of its clients by providing unparalleled technological solutions. The company envisions itself as a catalyst for positive change, aiming to reshape industries through innovation, integrity, and a relentless pursuit of excellence.



# Our Clients

**ciena**

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Optical Networking

**colt**

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**Coriant**

**MAVENIR**



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**BHARAT ELECTRONICS**

**HITACHI**

**एनटीपीसी**  
**NTPC**

**TATA**

**LARSEN & TOUBRO**



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