

Product Specification

MPO/MTP® Conversion Cables

Enables Seamless, High-Speed Fiber Connectivity
With Low Loss



Features

- US Conec MTP® connector
- Senko MPO Plus® premium connector
- Corning SMF-28® Ultra optical fiber
- Corning Clearcurve® OM4 fiber
- OS2, OM4 available
- 0.35dB elite low loss connector
- Cable Jacket Available in OFNP and LSZH Fire Rating
- Factory terminated and tested

Compliance

- RoHS, CE (EN 50575 CPR) and ISO9001 Compliant
- IEC61754-7
- TIA 605-4 (FOCIS 5)

MPO/MTP® Conversion Cables Description

MPO/MTP® conversion cables are high-performance fiber optic solutions engineered to provide seamless connectivity between diverse MPO/MTP interfaces. These cables are indispensable in data centers and high-density network setups, ensuring efficient and reliable data transmission. They accommodate various configurations, including single-mode and multimode fibers, and are offered in multiple lengths to meet specific application requirements. Built with robust materials and precision alignment, MPO/MTP® conversion cables deliver superior signal integrity and low insertion loss, making them a perfect choice for high-speed networking and telecommunications systems.

Technical Specification

1. Basic Characteristics

Parameter	Description
Fiber Count	8/16 Fibers
Fiber Mode	Single Mode: OS2 9/125µm Multimode: OM4 50/125µm
Fiber Brand	OS2: SMF-28® Ultra optical fiber OM4: Corning ClearCurve® fiber
Connector Type	MTP® Female/Male
Connector Brand	US Conec MTP®
Connector Keyway	Up to Down
Cable Jacket Ratings	Plenum (OFNP) Low Smoke Zero Halogen (LSZH)
Cable Type	Bunch/Ribbon

2. Color Characteristics

Parameter	MPO/MTP®
Cable Jackets	OS2: Yellow OM4: Magenta
Connectors	OS2: Green OM4: Aqua
Boots	OS2: Black/Gray/Red OM4: Black/Gray/Red

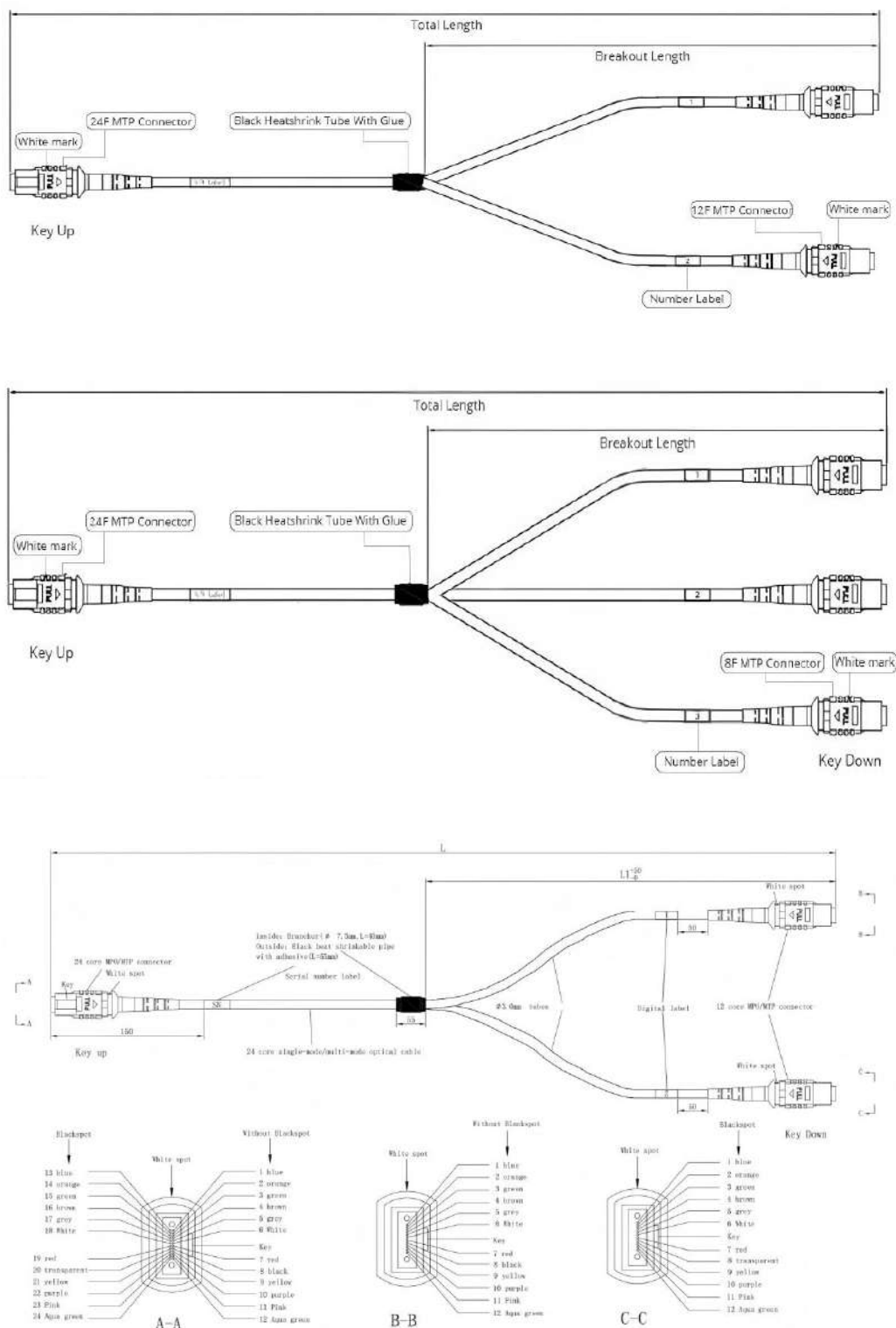
3. Physical Characteristics

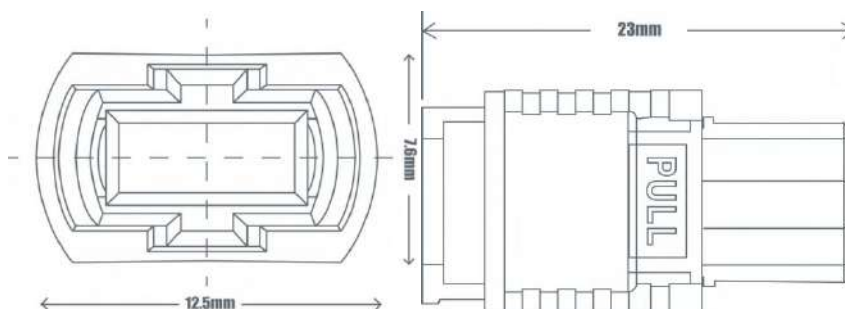
Parameter	Description
Cable Diameter	3.0mm
Breakout Length	0.5m
Minimum Bend Radius	OS2: 10.0mm OM4: 7.5mm
Operating Temperature	-10°C to 70°C (14 to 158°F)
Storage Temperature	-40°C to 85°C (-40 to 185°F)

4. Optical Characteristics

Parameter	Description
Attenuation(dB/km)	OS2:≤0.32at 1310nm,≤0.18at 1550nm
	OM4:≤2.3 at 850nm,≤0.6 at 1300nm
Insertion Loss(dB)	OS2:≤0.35/0.75(Elite/Standard)
	OM4:≤0.35/0.6(Elite/Standard)
Return Loss(dB)	OS2:≥60
	OM4:≥20
Wavelength (nm)	OS2:1310/1550
	OM4:850/1300

Technical Drawing

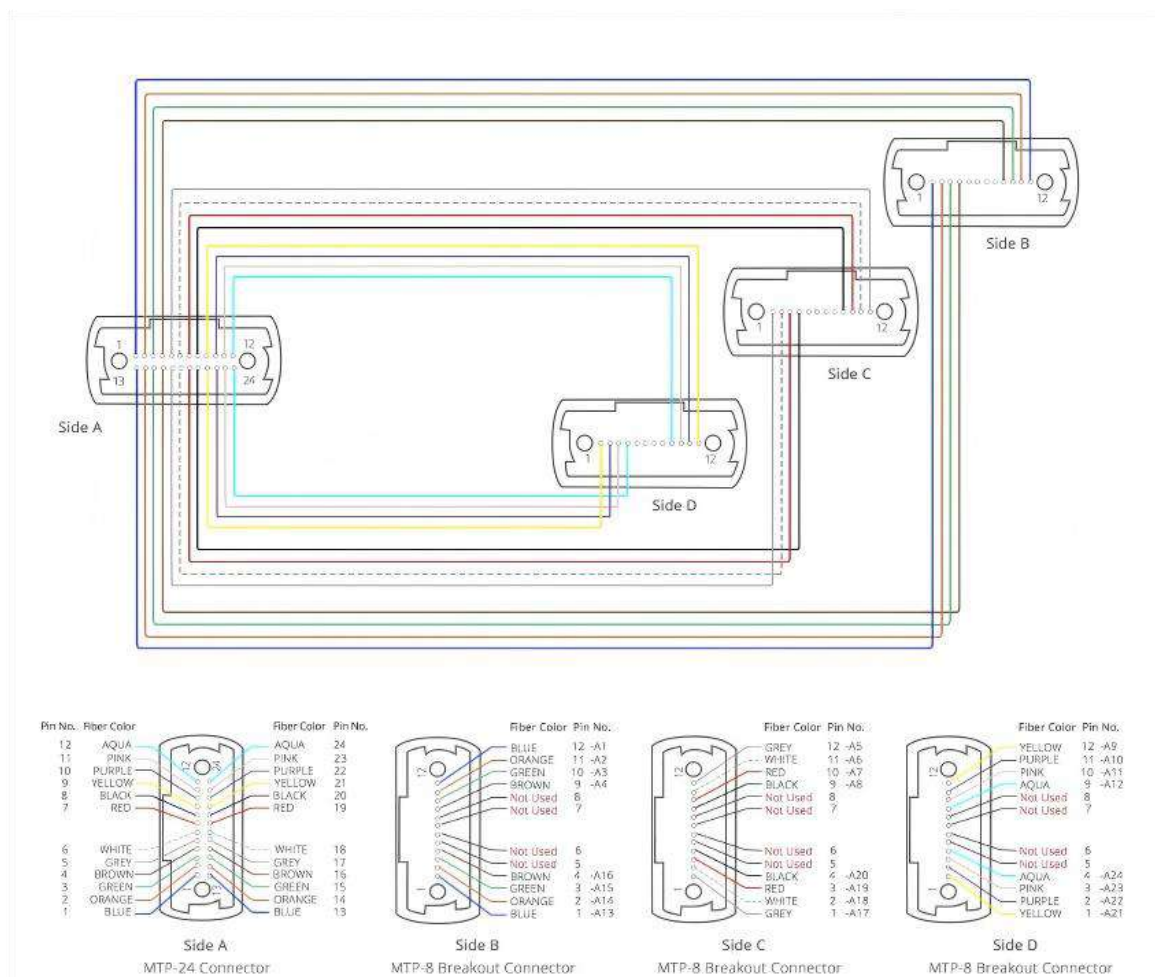




Note:

- $L \leq 1\text{m}$, tolerance $\pm 0.05\text{m}$; $1 < L < 20\text{m}$, tolerance $\pm 0.10\text{m}$; $L \geq 20\text{m}$, tolerance $\pm L * 1\%$.
- The connector types in the figure are for reference only. MTP/MPO® (Male/Female) are optional.
- The total length of this cable is the distance from the connector ferrule at one end to the ferrule at the other end.

Branch diagram



Production Center

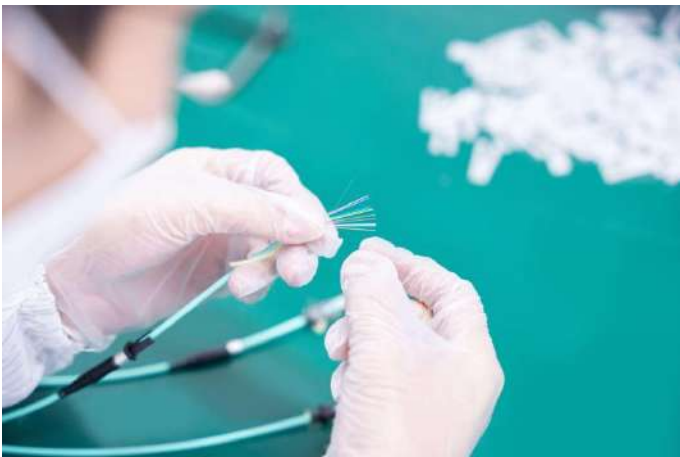
Each fiber is fully verified and tested under the LSOLINK Assurance Program, which features the world's most advanced analytical equipment to ensure our transceivers comply with international common protocol standards while still operating flawlessly in your facility.



Optical Fiber Stripping



Optical Fiber Ferrule



Optical Fiber Paralleling



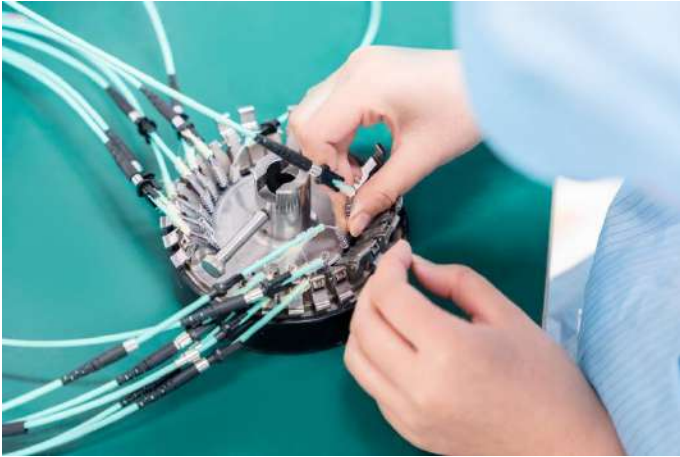
Optical Fiber Fixed



Glue Solidifies



Plug-in Installation



Installation Fixture



Optical Fiber Polishing



End Face Inspection



Crimp Connector



Polarity Detection



Install Lable

Order Information

Part Number	Description
OS2-G-MPO8FA-2MPO4FA	MPO-8 (Female APC) to 2xMPO-4 (Female APC) OS2 Single mode Elite Breakout Cable,8 Fiber,Plenum (LSZH) , Yellow
OM4-G-MPO8FA-2MPO4FA	MPO-8 (Female APC) to 2xMPO-4 (Female APC) OM4 Multimode Elite Breakout Cable,8 Fiber,Plenum (LSZH) , Magenta
OM4-G-MPO16FA-2MPO8FU	MPO-16 (Female APC) to 2xMPO-8 (Female UPC) OM4 Multimode Elite Breakout Cable,16 Fiber,Plenum (LSZH) , Magenta
OM4-G-MPO16FA-2MPO8FA	MPO-16 (Female APC) to 2xMPO-8 (Female APC) OM4 Multimode Elite Breakout Cable,16 Fiber,Plenum (LSZH) , Magenta

Further Information

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