

Features

- US Conec MTP[®] connector
- Senko MPO Plus® premium connector
- Corning SMF-28[®] Singlemode fiber
- Corning Clearcurve[®] multimode fiber
- LC, MDC, SC, FC, ST connectors available
- OS2, OM4, OM3 available
- 0.35dB elite low loss connector
- Factory terminated and tested
- Pulling eyes are provided as an option to protect the fiber ends during Installation
- Custom staggering options available on tails

Compliance

- RoHS, CE (EN 50575 CPR) and ISO9001 Compliant
- EIA/TIA, Telecocordia GR-326-CORE Standards
- IEC61754-7
- TIA 605-4 (FOCIS 5)
- YD/T1272.5

MPO/MTP® Breakout Cables Description

MPO/MTP® breakout cables are utilized in parallel optics and duplex transmission cross-connect systems to enhance cable density between switch and server cabinets. Designed for high-density fiber patching in data centers, they ensure optimal performance across local area networks. These cables enable quick deployment of high-density, multi-port connectivity, making them ideal for Storage Area Network (SAN) applications and other demanding environments requiring reliable, high-speed fiber optic solutions.



Technical Specification

1. Basic Characteristics

Parameter	Description	
Fiber Count	8-144Fibers	
Fiber Mode	Single Mode: OS2 9/125μm	
	Multimode: OM3/OM4/OM5 50/125µm	
Fiber Brand	Corning ClearCurve® multimode fiber and SMF-28® Ultra optical fiber	
Connector A	MTP® Female, Male; MPO Female, Male	
Connector Brand	US Conec MTP®, Senko MPOPlus®	
Connector B	LC, MDC, SC, FC, ST	
Polarity	Type A, Type B, Type C	
Cable Jacket	Plenum (OFNP)	
	Low Smoke Zero Halogen (LSZH)	
	Riser(PVC)	

2. Color Characteristics

Parameter	MTP [®]	МРО	LC	MDC	
0-5-	OS2:Yellow,Black	OS2:Yellow	OS2:Yellow		
Cable	OM4:Magenta	OM4:Magenta	OM4:Magenta	OS2:Yellow	
Jackets	OM3:Aqua	OM3:Aqua	OM3:Aqua		
Connectors	OS2:Green	OS2:Green	Single Mode:UPC Blue,APC Green	Oin als Madad IDO Dive	
	OM4/OM3:Aqua	OM4/OM3:Aqua	Multimode:Beige	Single Mode:UPC Blue	
	8Fibers:Grey		Single Mode:UPC White,APC Green		
Boots	12 Fibers:Black	8/12/24Fibers:Black	Multimode:Beige	Single Mode:UPCBlack	
	24 Fibers:Red				

3. Physical Characteristics

Parameter	Description
Cable Diameter	3.0mm
Breakout Leg	Duplex: 2.0mm, Simplex: 0.9/2.0mm
Breakout Length	0.3/0.5m
Minimum Bend Radius	Single Mode: 10.0mm, Multimode: 7.5mm
Operating Temperature	-10°C to 70°C (14 to 158°F)
Storage Temperature	-40°C to 85°C (-40 to 185°F)



Note: Please kindly note that the cable diameter of standard single MPO/MTP® cable is 3.0mm, and as for cables with different bundles, the trunk diameter is different, as shown below.

4. Shape Characteristics

Bundle Count	MTP [®] /MPO-12	MTP [®] /MPO-24	Trunk Diameter
2 Bundles	24 Fibers	48 Fibers	7.2mm
3 Bundles	36 Fibers	72 Fibers	9.3mm
4 Bundles	48 Fibers	96 Fibers	9.5mm
6 Bundles	72 Fibers	144 Fibers	11.7mm
8 Bundles	96 Fibers	1	12.01mm
12 Bundles	144 Fibers	1	17.3mm

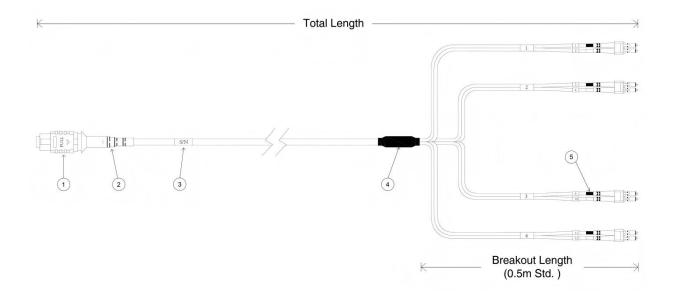
Note: The "bundle" means a combination of several fibers. For example, as for MTP[®]/MPO-12 cables, 2 bundles mean 24 Fibers(2x 12F); for MTP[®]/MPO-24 cables, 2 bundles mean 48 Fibers(2x 24F).

5. Optical Characteristics

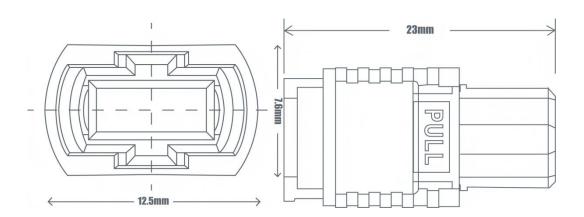
Parameter	Description			
Wavelength (nm)	Single Mode: 1310/1550nm			
wavelengin (min)	Multimode: 850/1300nm			
Transmission Distance	OM4: 150m at 40/100G, 400m at 10G			
Transmission distance	OM3: 100m at 40/100G, 300m at 10G			
Connector: MTP®/MPO				
Fiber Mode	Single Mode		Multimode	
Attanuation (dD/km)	≤0.32 at 1310nm		≤2.3 at 850nm	
Attenuation (dB/km)	≤0.18 at 1550nm		≤0.6 at 1300nm	
Insertion Loss (dB)	≤0.35dB		≤0.35dB	
Return Loss (dB)	APC: ≥60dB, UPC: ≥50dB		UPC: ≥20dB	
Connector: LC/SC/FC/ST/MDC				
Fiber Mode	Single Mode	Multimode	Single Mode	
Insertion Loss (dB)	APC: ≤0.3dB	UPC: ≤0.2dB	UPC: ≤0.3dB	
	UPC: ≤0.2dB			
Return Loss (dB)	APC: ≥60dB	UPC: ≥30dB	UPC: ≥50dB	
Netuin Loss (ub)	UPC: ≥50dB			



Technical Drawing



- 1. MTP®/MPO Connector
- 2. Connector Boot
- 3. Serial Number Label
- 4. Fan Out Kit
- 5. LC Connector



Note:

- L≤1m, tolerance ± 0.05 m; 1<L<20m, tolerance ± 0.10 m; L≥20m, tolerance $\pm L*1\%$ m.
- 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.



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

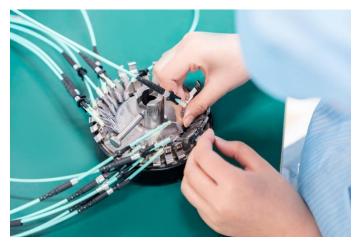


Glue Solidifies



Plug-in Installation





Installation Fixture

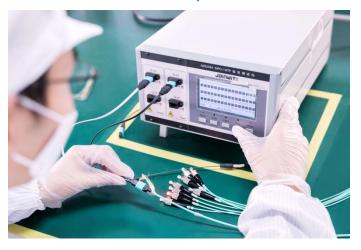
Optical Fiber Polishing





End Face Inspection

Crimp Connector





Polarity Detection

Install Lable



Order Information

Part Number	Description
OS2-B-MPO8FA-4DLCU	MPO-8 (Female UPC) to 4 LC UPC Duplex OS2 Single Mode Elite Breakout Cable,8 Fibers, Type B,Plenum (OFNP) ,Yellow
OM4-B-MPO8FA-4DLCU	MPO-8 (Female UPC) to 4 LC UPC Duplex OM4 Multimode Elite Breakout Cable,8 Fibers, Type B,Plenum (OFNP) ,Magenta
OM3-B-MPO8FA-4DLCU	MPO-8 (Female UPC) to 4 LC UPC Duplex OM3 Multimode Elite Breakout Cable,8 Fibers, Type B,Plenum (OFNP) ,Aqua



Further Information

Lighting the Path to Global Links

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Disclaimer

- We are committed to continuous product improvement and feature upgrades, and the contents cont ained in this manual are subject to change without notice.
- 2. Nothing herein should be construed as constituting an additional warranty.
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