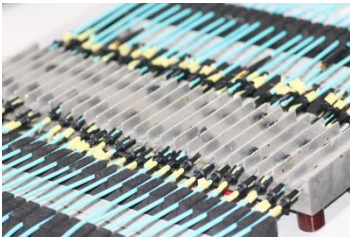




OPTICO provides High Density Multi-fibers Solutions which are Fiber Optic MTP® / MPO Assemblies application in data center, be welcome give us a contact we surely provide you a satisfy service!



Glue Dry



Endface Polishing



Assembling Processing



3D Interferometer SUMIX SMX-QM50



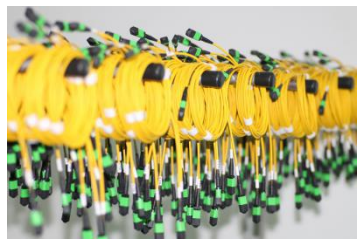
EXFO Equipment - Polarity Test



MPO /MTP® Power Meter
MPO /MTP® Light Source



Fluke Test



Final Products

Index

• Item

- ▶ Instruction.....
- ▶ Environment Requirement.....
- ▶ Optical Performance.....
- ▶ Ferrule Endface.....
- ▶ Geography.....
- ▶ Drawing.....
- ▶ Related Product.....

- Instruction

1. Application

This specification is comply with National standards, Industry standards about testing, package and inspection.

2. Standards

《National standards》 and 《Industry standards》

3. Material requirement

- (1) Use ribbon cable or round cable, meet RoHS standards.
- (2) MT adapts high precision material injection production process.

4. Anti-fire and environment

Cable, protective tube and other pigtails must be anti-fire, meet GB/T 18380.12-2008 standards, all materials meet RoHS standards.

5. Out appearance

- (1) No dirty and broken on cable jacket
- (2) No burr, crack, dirty, defect on MPO connector

- Environment Requirement

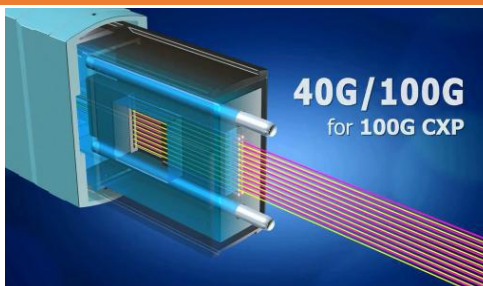
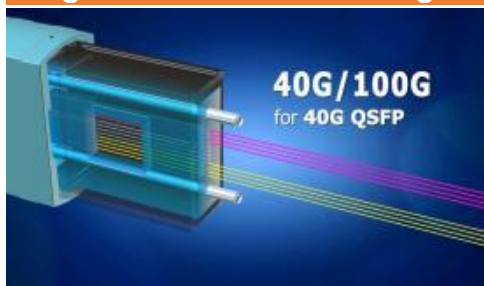
	Parameter	Low	High
1	Operating	-40℃	+85℃
2	Storage	-40℃	+85℃

- Optical requirement

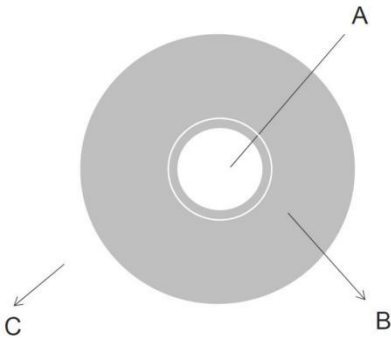
For MPO connector, it requires two parameter: Insert loss, Return loss

Products	Wave length (nm)	IL (db)	RL (db)
MPO Low Loss (SM) APC	1310/1550	≤0.35	≥55
MPO Standard (SM) APC	1310/1550	≤0.7	≥50
MPO Low Loss (MM)	850/1300	≤0.3	≥25
MPO Standard (MM)	850/1300	≤0.5	≥25

- Migration to 40 and 100Gig Assemblies



- Ferrule Endface



Area	Range	Standard
A	0~50μm	No any defects, scratch, dirty
B	50~125μm	Scratch<2um=1 Defect<5um=1 Dirty spot cannot clean<5um=1
C	≥125μm	N/A

- Note:**
- 1.Total defects, scratch, dirty less than 10;
 - 2. Meet the standard after polishing.

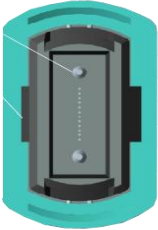
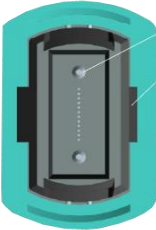
- Geography

Geography standard for MPO connector					
Item	Unit	X		Y	
		Min	Max	Min	Max
Radius		±50	±10000	±500	±1000
Polishing Angel		-0.20	+0.20	-0.20	+0.20

Geography standard for MPO connector			
Item	Unit	Min	Max
Height	um	1	3
Height Gap	um	0	0.3
Center Depress	um	-100	+150

- Drawing

(MPO—MPO Male Type B *M)

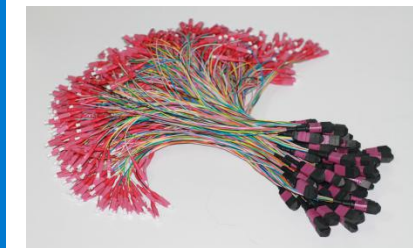


No.	Color	No.	Color
1	Blue	1	Aqua Blue
2	Orange	2	Pink
3	Green	3	Violet
4	Blown	4	Yellow
5	Gray	5	Black
6	White	6	Red
7	Red	7	White
8	Black	8	Gray
9	Yellow	9	Blown
10	Violet	10	Green
11	Pink	11	Orange
12	Aqua Blue	12	Blue

- Related Products



12 f.o MM-OM4-MPO Patch Cord



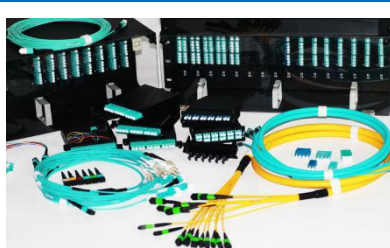
12 f.o MM-OM4-MPO Fanout



12 f.o MM-OM4-MPO Bare Fiber



12 f.o MM-OM3-MPO Hybrid



MPO / MTP® Solution



Waterproof MPO for FTTH Projects



Expanded MPO Trunk Cable

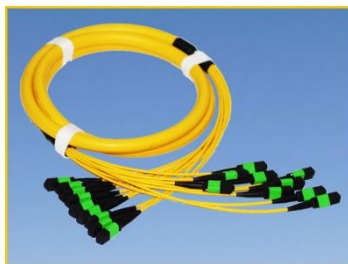


LED MPO Traceable Fiber Cables

High Density Multifibers Solutions

MTP® / MPO Standard Trunk

Single-mode Series



Multi-mode Series



High Density Multifibers Solutions

MTP® / MPO Hybrid Trunk Cables

Single-mode Series



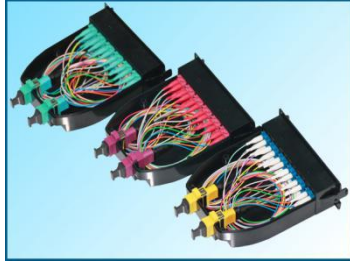
Multi-mode Series



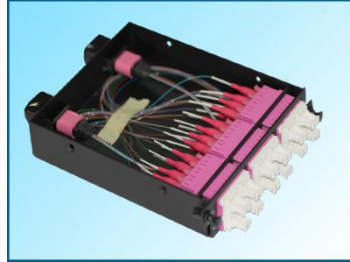
High Density Multifibers Solutions

Easy Plug and Play Cassette Modules

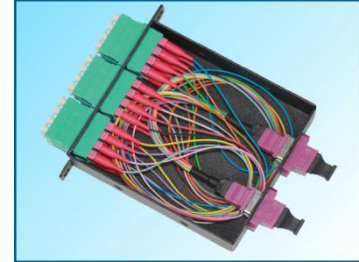
24 f.o MTP OM3 Module Cassettes (Loaded or Unloaded)



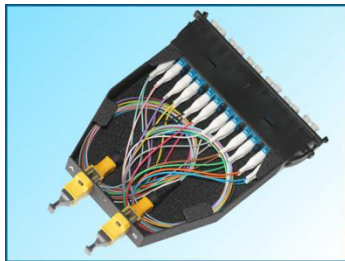
NT-24L01



NT-24L02



NT-24L03



NT-24L04

- √ 24(LC) fibres modules.
- √ 24(LC) fibres modules.
- √ 24 Fibre ferrule MPO / MTP® interface.
- √ Premium LC Low Loss terminations.
- √ Standard and Elite low loss MPO / MTP® connectors.
- √ SM and MM (OM3/OM4) Versions.

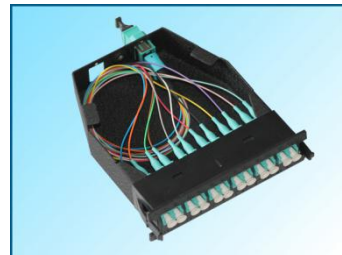
12 f.o MTP OM3 Module Cassettes (Loaded or Unloaded)



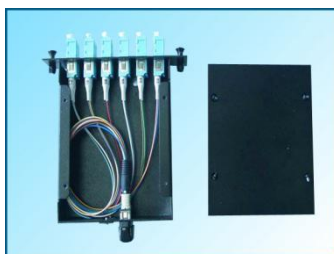
NT-12L01



NT-12L02



NT-12L03



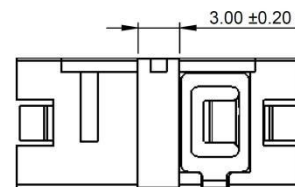
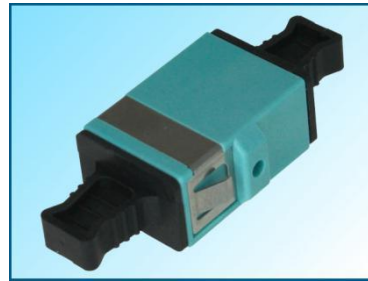
NT-12L04

- √ 12(LC) fibres modules.
- √ 12(LC) fibres modules.
- √ 12 Fibre ferrule MPO / MTP® interface.
- √ Premium LC Low Loss terminations.
- √ Standard and Elite low loss MPO / MTP® connectors.
- √ SM and MM (OM3/OM4) Versions.

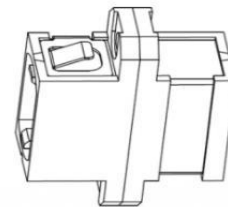
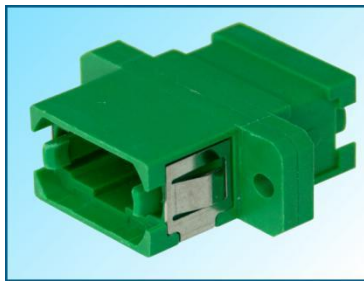
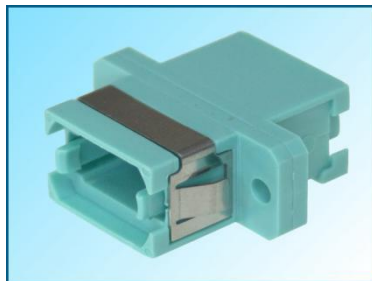
High Density Multifibers Solutions

MPO / MTP® Adapters

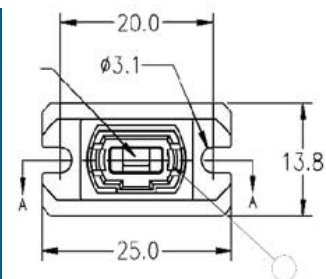
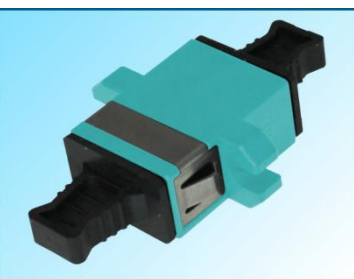
- MPO SC PC Footprint Adapter Housing Without Flange



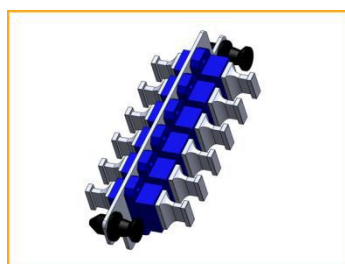
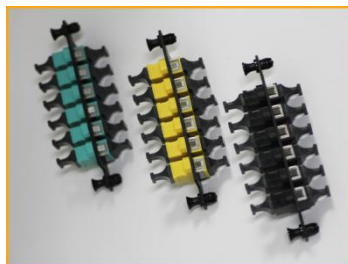
- MPO PC Footprint Adapter Housing With Flange



- MPO Adapter with Flange Keyway Convertible



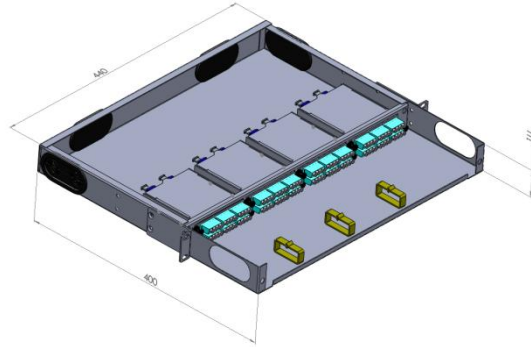
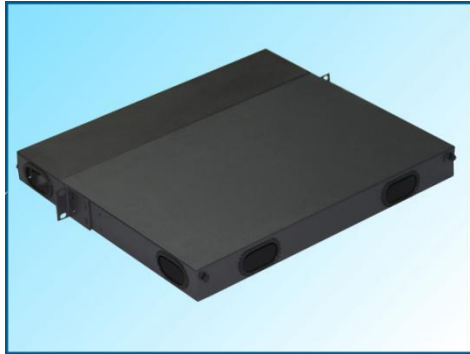
- Application



High Density Multifibers Solutions

Pre-terminated Fiber Enclosure

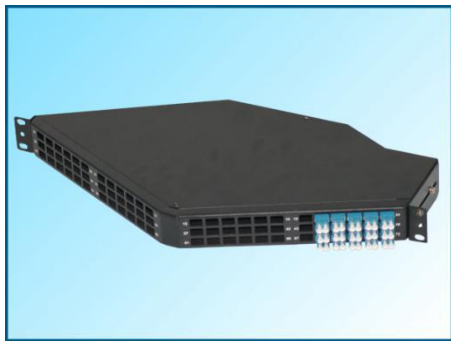
- 96 f.o 1U 19" Pre-terminated MTP® / MPO Patch Panel (Loaded or Unloaded)



General Features:

- √ Dimension H*W*D:1U*482(Include side bracket)*400mm.
- √ Material: Cold-roll Steel
- √ Power coated, Black RAL9005
- √ Suitable to 19" installation
- √ Easy to operate and maintain
- √ Four cassettes or adapter panel may be install
- √ Max capacity: 4 x 6-port-MTP
- √ Meet to ROHS, 2002/95/EC, TIA/EIA568C, ISO/IEC11801, EN50173

- 144 f.o 1U 19" Pre-terminated Angled MTP® / MPO Patch Panel (Loaded or Unloaded)



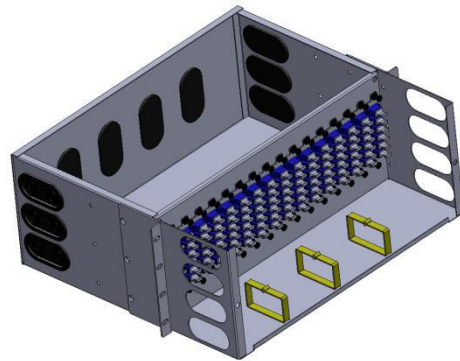
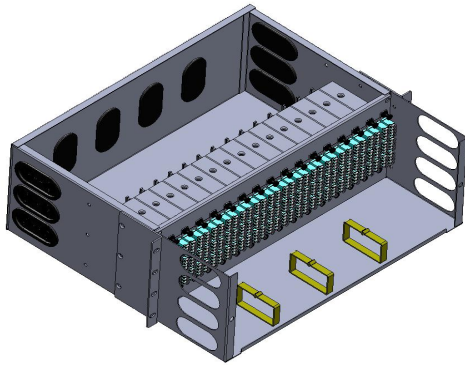
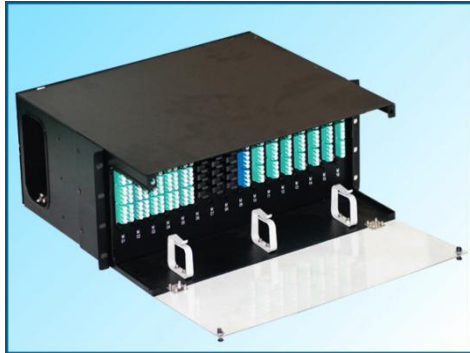
Application:

- √ Optical Access Network (OAN);
- √ Data Processing Centers;
- √ Cable Television(CATV);
- √ Local Area Network(LAN);
- √ Coarse Wavelength Division Multiplexer(CWDM).

High Density Multifibers Solutions

Pre-terminated Fiber Enclosure

- 384 f.o 4U 19" Pre-terminated MTP Patch Panel (Loaded or Unloaded)



General Features:

- √ Dimension H*W*D:4U*482(Include side bracket)*400mm.
- √ Material: Cold-roll Steel
- √ Power coated, Black RAL9005
- √ Suitable to 19" installation
- √ Easy to operate and maintain
- √ 16pcs cassettes or adapter panel may be install
- √ Max capacity: 16 x 6-port-MTP
- √ Meet to ROHS, 2002/95/EC, TIA/EIA568C, ISO/IEC11801, EN50173

Application:



So nowadays The Multi-fibers Assemblies are becoming increasing popular due to the high density applications in the marketplace. Assemblies are available in various fiber counts and utilize a variety of connectors. Cable is offered in distribution (900µm tight buffered), breakout, ribbon, and loose tube configurations in both Singlemode and Multimode options. Customized breakout types and lengths are available. Please contact **OPTICO** to assist you with configuring the required cable assembly.

MTP/MPO
Pre-terminated Fiber Optic Cables
Transition Assemblies
MTP Harness Cables & MTP Break-Out Cables
MTP Trunk Cables

MPO / MTP Harness Cable Assemblies

Type	Single-mode (OM3) cables	Single-mode (OM4) cables	Multimode OM3 cables
Fiber count	12, 24	12, 24	12, 24
Fiber type	Bend-insensitive, 9µm	Bend-insensitive, 9µm	Bend-insensitive, 10µm/OM3, OM4
Maximum transfer rate	100G/100Gbps, 40G	100G/100Gbps, 40G	40G/100Gbps, 100G/40Gbps, 10G
Polished length	40.00m, 45.00m, 50.00m	40.00m, 45.00m, 50.00m	40.00m, 45.00m, 50.00m
Polished type	APC	APC	PC
Connector	LC/APC	LC/APC	LC/PC
Operating temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Test bandwidth	100000 / 100000	100000 / 100000	100000

Connector specification	Single-mode	Multimode
Max. A	1.0mm	1.0mm
Max. B	1.0mm	1.0mm
Max. C	1.0mm	1.0mm
Max. D	1.0mm	1.0mm
Max. E	1.0mm	1.0mm
Max. F	1.0mm	1.0mm
Max. G	1.0mm	1.0mm
Max. H	1.0mm	1.0mm
Max. I	1.0mm	1.0mm
Max. J	1.0mm	1.0mm
Max. K	1.0mm	1.0mm
Max. L	1.0mm	1.0mm
Max. M	1.0mm	1.0mm
Max. N	1.0mm	1.0mm
Max. O	1.0mm	1.0mm
Max. P	1.0mm	1.0mm
Max. Q	1.0mm	1.0mm
Max. R	1.0mm	1.0mm
Max. S	1.0mm	1.0mm
Max. T	1.0mm	1.0mm
Max. U	1.0mm	1.0mm
Max. V	1.0mm	1.0mm
Max. W	1.0mm	1.0mm
Max. X	1.0mm	1.0mm
Max. Y	1.0mm	1.0mm
Max. Z	1.0mm	1.0mm