

MTP/MPO

PRODUCT CATALOGUE

MPO/MTP® Trunk Cables

Applications

- Data center network
- Optical system access network
- Storage area networking fiber channel
- High density architectures



Features

- 100% pre-terminated and tested in factory to ensure transfer performance
- Rapid configuration and networking, reduce installation time
- Supports 40G and 100G network applications
- Jacket material: LSZH, OFNR, OFNP available
- Supports up to 12F, 24F, 48F, 72F, 96F, 144F, customized products are available

Optical Performance

Performance Level			Standard		Elite	
Connector	Mode	Endface	IL(max) (dB)	RL(min) (dB)	IL(max) (dB)	RL(min) (dB)
MPO/MTP	SM	12F/APC	≤0.70	≥60	≤0.35	≥60
		24F/APC	≤0.75	≥60	≤0.35	≥60
		48F/APC	≤0.75	≥60		
	MM	12F/PC	≤0.50	≥20	≤0.35	≥20
		24F/PC	≤0.50	≥20	≤0.35	≥20
		48F/PC	≤0.50	≥20		

Note:

- 1.Test wavelength:SM@1310/1550nm,MM@850/1300nm;
- 2.Standard conformance: GR-326,GR-1435.

Mechanical Properties

Item	Criteria	Conformance
ΔIL After 50 Matings	MPO/MTP	≤0.3dB
ΔIL After 500 Matings	LC/SC/FC/ST	≤0.2dB
Min Bend Radius (Dynamic)	20*OD (Cable Diameter)	
Min Bend Radius (Static)	15*OD (Cable Diameter)	

Environment Conditions

Item	Criteria	Conformance
Operation Temperature	-40~60°C	IEC 61753-1
Storage Temperature	-45~85°C	

MPO/MTP® Harnesses Cables

Applications

- Data Center network
- Optical system access network
- Storage area networking fiber channel
- High density architectures



Features

- 100% pre-terminated and tested in factory to ensure transfer performance
- Rapid configuration and networking, reduce installation time
- Supports 40G and 100G network applications
- Jacket material: LSZH, OFNR, OFNP available
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		48F/APC	≤0.75	≥60		
	MM	12F/PC	≤0.50	≥20	≤0.35	≥20
		24F/PC	≤0.50	≥20	≤0.35	≥20
		48F/PC	≤0.50	≥20		
LC/SC/FC/ST	SM	APC	≤0.30	≥60	≤0.10	≥60
		UPC	≤0.20	≥50	≤0.10	≥50
	MM	PC	≤0.20	≥30	≤0.10	≥30

Note:

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Min Bend Radius (Dynamic)	20*OD (Cable Diameter)	
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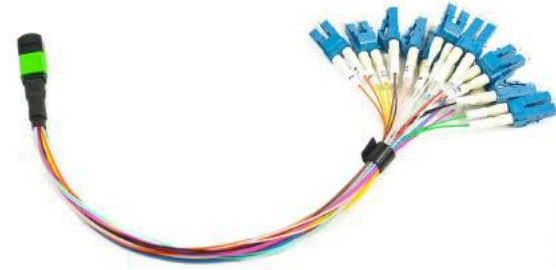
Environment Conditions

Item	Criteria	Conformance
Operation Temperature	-40~60°C	IEC 61753-1
Storage Temperature	-45~85°C	

MPO/MTP® Fan out 0.9mm Patch Cords

Applications

- Data center network
- Optical system access network
- Storage area networking fiber channel
- High density architectures



Features

- Economical solution for mass-termination of fiber
- Designed for low loss and standard loss SM and MM applications
- Ruggedized round cable, oval cable and bare ribbon options available
- Color coded housings available to differentiate fiber type, polish type and/or connector grade
- Good in repeatability and exchangeability

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		48F/APC	≤0.75	≥60		
	MM	12F/PC	≤0.50	≥20	≤0.35	≥20
		24F/PC	≤0.50	≥20	≤0.35	≥20
		48F/PC	≤0.50	≥20		
LC/SC/FC/ST	SM	APC	≤0.30	≥60	≤0.10	≥60
		UPC	≤0.20	≥50	≤0.10	≥50
	MM	PC	≤0.20	≥30	≤0.10	≥30

Note:
 1. Test wavelength: SM@1310/1550nm, MM@850/1300nm;
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Environment Conditions

Item	Criteria	Conformance
Operation Temperature	-40~60°C	IEC 61753-1
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IP-Series MPO/MTP® Assemblies

Applications

- Data Center network
- Optical system access network
- Storage area networking fiber channel
- High density architectures



Features

- Available for standard or low loss MPO/MTP® interface
- Bayonet locking design with IP68 sealing
- Highly customizable configurations
- Designed with protective housing, which fulfills IP67 environmental sealing

Optical Performance

Performance Level			Standard		Elite	
Connector	Mode	Endface	IL(max) (dB)	RL(min) (dB)	IL(max) (dB)	RL(min) (dB)
MPO/MTP	SM	12F/APC	≤0.70	≥60	≤0.35	≥60
		24F/APC	≤0.75	≥60	≤0.35	≥60
		48F/APC	≤0.75	≥60		
	MM	12F/PC	≤0.50	≥20	≤0.35	≥20
		24F/PC	≤0.50	≥20	≤0.35	≥20
		48F/PC	≤0.50	≥20		
LC/SC	SM	APC	≤0.30	≥60	≤0.10	≥60
		UPC	≤0.20	≥50	≤0.10	≥50
	MM	PC	≤0.20	≥30	≤0.10	≥30

Note:
 1. Test wavelength: SM@1310/1550nm, MM@850/1300nm;
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ΔIL After 50 Matings	MPO/MTP	≤0.3dB
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Environment Conditions

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Operation Temperature	-40~60°C	IEC 61753-1
Storage Temperature	-45~85°C	

High Density Patch Cords

Applications

- Connection between optical distribution panels and equipment

Features

- 100% pre-terminated and tested in factory to ensure transfer performance
- Reduction of installation time
- Fire retardant in conformity with IEC 60332-3C standard
- No corrosive gas emissions IEC 60754-2 standard
- Low smoke zero halogen emissions with IEC 61034-2 standard
- Using standard LC, SC, ST, FC connectors, supporting simplex or duplex
- Customized products available



MPO/MTP® Loopback

Applications

- 40GbE QSFP+ Optical Testing
- Research and Development
- Manufacturing Test
- Troubleshooting
- Quality Control
- Training



Features

- Available in a wide variety of wiring configurations and fiber types
- All loopbacks meet TIA/EIA and IEC intermateability standards
- 8, 12, and 24 Fiber available
- Easy Installation/Removal, available with or without Pull tabs
- Compact and portable with lanyard feature

Optical Performance

Performance Level			Standard		Elite	
Connector	Mode	Endface	IL(max) (dB)	RL(min) (dB)	IL(max) (dB)	RL(min) (dB)
MPO/MTP	SM	12F/APC	≤0.70	≥60	≤0.35	≥60
		24F/APC	≤0.75	≥60	≤0.35	≥60
	MM	12F/PC	≤0.50	≥20	≤0.35	≥20
		24F/PC	≤0.50	≥20	≤0.35	≥20
LC/SC/FC/ST	SM	APC	≤0.30	≥60	≤0.10	≥60
		UPC	≤0.20	≥50	≤0.10	≥50
	MM	PC	≤0.20	≥30	≤0.10	≥30

Note:

1. Test wavelength: SM@1310/1550nm, MM@850/1300nm;
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Mechanical Properties

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Min Bend Radius (Dynamic)	20*OD (Cable Diameter)	
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Environment Conditions

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Storage Temperature	-45~85°C	

Optical Performance

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		24F/APC	≤0.75	≥60	≤0.35	≥60
	MM	12F/PC	≤0.50	≥20	≤0.35	≥20
		24F/PC	≤0.50	≥20	≤0.35	≥20

Note:

1. Test wavelength: SM@1310/1550nm, MM@850/1300nm;
2. Standard conformance: GR-326, GR-1435.

Mechanical Properties

Item	Criteria	Conformance
ΔIL After 50 Matings	MPO/MTP	≤0.3dB
ΔIL After 500 Matings	LC/SC/FC/ST	≤0.2dB
Min Bend Radius (Dynamic)	20*OD (Cable Diameter)	
Min Bend Radius (Static)	15*OD (Cable Diameter)	

Environment Conditions

Item	Criteria	Conformance
Operation Temperature	-40~60°C	IEC 61753-1
Storage Temperature	-45~85°C	

MT Patch Cords

Applications

- QSFP (quad small form-factor pluggable)
- SFP+active optical cables
- Parallel light optical transceiver module
- Super computers
- Communication
- Military applications
- Data centers



Features

- Transmission rate: 40Gbps/100Gbps/168Gbps
- GR-1435 compliant
- Simple structure easy to locate
- Low cost
- Customized products available

Performance Level			Standard		Elite	
Connector	Mode	Endface	IL(max) (dB)	RL(min) (dB)	IL(max) (dB)	RL(min) (dB)
MT	SM	12F/APC	≤0.50	≥60	≤0.35	≥60
	MM	12F/PC	≤0.50	≥20	≤0.35	≥20

Environment Conditions

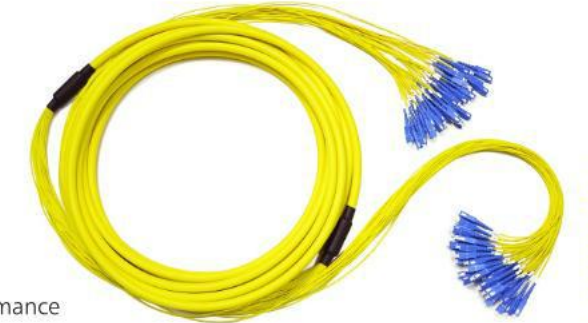
Item	Criteria	Conformance
Operation Temperature	-40~60°C	IEC 61753-1
Storage Temperature	-45~85°C	

Note: Customization available

Pre-Terminated Cables

Applications

- Connected with trunk cables on one end, equipment port on the other end
- Connected with transfer modules on one end, equipment port on the other end



Features

- 100% pre-terminated and tested in factory to ensure transfer performance
- Rapid configuration and networking, reduce installation time
- Supports 40G and 100G network applications
- Jacket material: LSZH, OFNR, OFNP available
- Supports up to 12F, 24F, 48F, 72F, 96F, 144F, customized products are available

Optical Performance

Performance Level			Standard		Elite	
Connector	Mode	Endface	IL(max) (dB)	RL(min) (dB)	IL(max) (dB)	RL(min) (dB)
LC/SC/FC/ST	SM	APC	≤0.30	≥60	≤0.20	≥65
		UPC	≤0.20	≥50	≤0.10	≥50
	MM	PC	≤0.20	≥30	≤0.10	≥30

Note:

- 1.Test wavelength:SM@1310/1550nm,MM@850/1300nm;
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Mechanical Properties

Item	Criteria	Conformance
ΔIL After 50 Matings	MPO/MTP	≤0.3dB
ΔIL After 500 Matings	LC/SC/FC/ST	≤0.2dB
Min Bend Radius (Dynamic)	20*OD (Cable Diameter)	
Min Bend Radius (Static)	10*OD (Cable Diameter)	

Environment Conditions

Item	Criteria	Conformance
Operation Temperature	-40~60°C	IEC 61753-1
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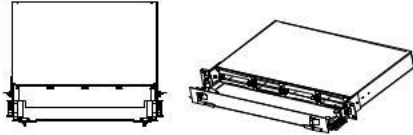
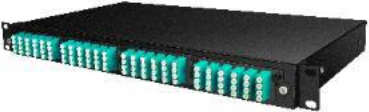
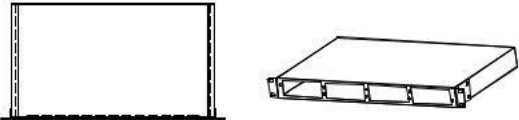

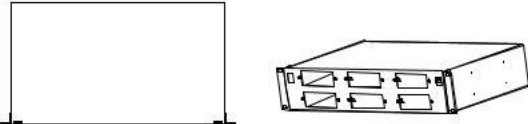

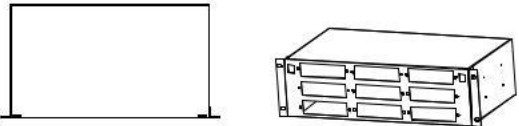
MTP/MPO® Patch Panel

Applications

- Data centers, pre-terminated installations
- Telecommunication networks
- Storage area networking fiber channel
- High density architectures

Features

- Finishing: powder coated
- Fits into 19 inch installations
- Max capacity up to 144 fiber for 1U
- Sliding tray design
- Easy to operate and maintain

	
Dimension (H*W*D)	1U*482*352 (mm)
Capacity	4 Cassette or Faceplate
Mounting Hole Distance	470 mm
	
Dimension (H*W*D)	1U*482*250 (mm)
Capacity	4 Cassette or Faceplate
Mounting Hole Distance	470 mm
	
Dimension (H*W*D)	2U*482*250 (mm)
Capacity	6 Cassette or Faceplate
Mounting Hole Distance	470 mm
	
Dimension (H*W*D)	3U*484*250 (mm)
Capacity	9 Cassette or Faceplate
Mounting Hole Distance	466 mm
Material	Cold-rolled steel


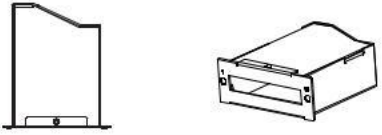

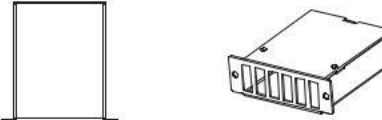

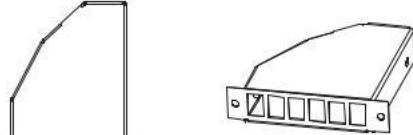

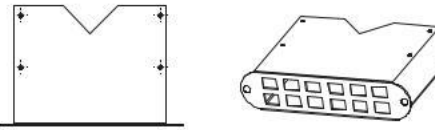
MPO/MTP® Cassettes

Applications

- Implementation of the structured cabling in Data Centers

Features

- 100% pre-terminated and tested in factory to ensure transfer performance
- Rapid configuration and networking, reduce installation time
- Supports 40G and 100G network applications

	
Dimension (H*W*D)	36.5 x 102 x 116 (mm)
Capacity	1MPO/MTP®-12F LC 1MPO/MTP®-24F LC 2MPO/MTP®-24F LC
Mounting Hole Distance	91 mm
	
Dimension (H*W*D)	34.5 x 109 x 114 (mm)
Capacity	1MPO/MTP®-12F LC 1MPO/MTP®-24F LC 2MPO/MTP®-24F LC
Mounting Hole Distance	99 mm
	
Dimension (H*W*D)	27 x 130 x 126 (mm)
Capacity	1MPO/MTP®-12F LC 1MPO/MTP®-24F LC 2MPO/MTP®-24F LC
Mounting Hole Distance	118 mm
	
Dimension (H*W*D)	35 x 155 x 95 (mm)
Capacity	1MPO/MTP®-12F LC 1MPO/MTP®-24F LC 2MPO/MTP®-24F LC
Mounting Hole Distance	145 mm
Material	Cold-rolled steel Plastic



GOOD QUALITY

We strongly believe that product quality and performance are the key success factors of a company. This mindset has been rooted throughout the whole organization, everybody believes that only high standards are necessary to win the customer and market.

INNOVATIVE TECHNOLOGY

We always learn new technology by investing in production facilities, engineering process control systems, and talent development to maintain our status as a leading fiber optic connection solutions.

HIGH STANDARD

We believe a high standard of professionalism towards our product and service offerings combined with our superior engineering solutions serve to satisfy the unique needs of our customers.

Option A: Key-UP to Key-DOWN configuration

More typical configuration
Available with angle-polished single mode connectors

Check box to select

Option B: Key-UP to Key-UP configuration

Available with angle-polished single mode connectors

Check box to select

Connector: With Pins

Check box to select

Connector: Without Pins

Check box to select



INTELLIGENT
COMMS
LIMITED



ICL, LONDON, UNITED KINGDOM