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DATA CENTER

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	GR-1435
ΔIL After 500 Matings	LC/SC/FC/ST	≤0.2dB	IEC 61300-2-2
Min Bend Radius (Dynamic)		20*OD (Cable Diameter)	
Min Bend Radius (Static)		15*OD (Cable Diameter)	

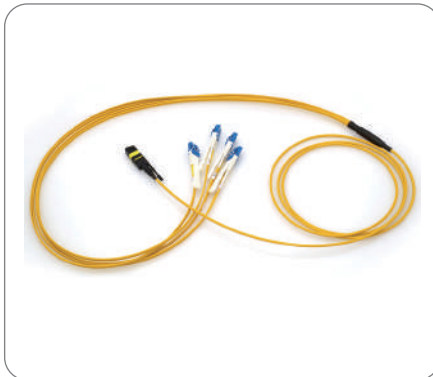
Environment Conditions

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

MPO/MTP® Harnesses Cables



24F MPO-LC 2.0mm
duplex fan-out cable



8F MPO-LC 2.0mm Duplex
SM Hybrid Cable



8F MPO to 4LC Duplex
OM4 Hybrid Cable



12F MPO-LC 2.0mm
OM3 Hybrid Cable



12F MPO-LC Duplex 2.0mm
OM4 Aqua Hybrid Cable



MPO-LC 12F 4.5mm double
sheath Hybrid Cable



24F MPO-LC 2.0mm Duplex
OM3 Hybrid Cable



24F MPO-LC 2.0mm Duplex
OM4 Hybrid Cable



Low Loss MPO-LC 12F SM
0.9mm Hybrid Cable

Applications

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- 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

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		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/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;
- 2.Standard conformance: GR-326,GR-1435.

Mechanical Properties

Item		Criteria	Conformance
ΔIL After 50 Matings	MPO/MTP	≤0.3dB	GR-1435
ΔIL After 500 Matings	LC/SC/FC/ST	≤0.2dB	IEC 61300-2-2
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	

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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Environment Conditions

Item	Criteria	Conformance
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



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;
2.Standard conformance: GR-326,GR-1435.

Mechanical Properties

Item		Criteria	Conformance
ΔIL After 50 Matings	MPO/MTP	≤0.3dB	GR-1435
ΔIL After 500 Matings	LC/SC/FC/ST	≤0.2dB	IEC 61300-2-2
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® 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

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	GR-1435
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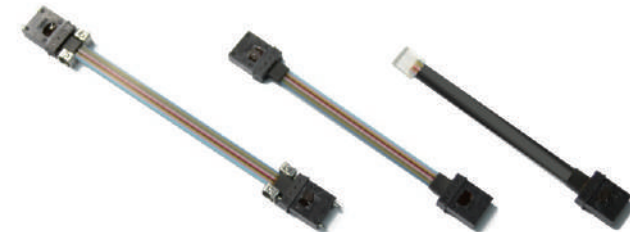
Environment Conditions

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

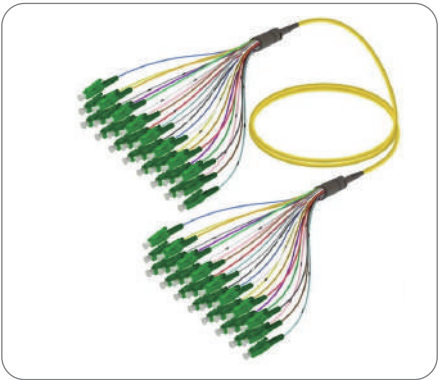
Item	Criteria	Conformance
Operation Temperature	-40~60°C	IEC 61753-1
Storage Temperature	-45~85°C	

Note: Customization available

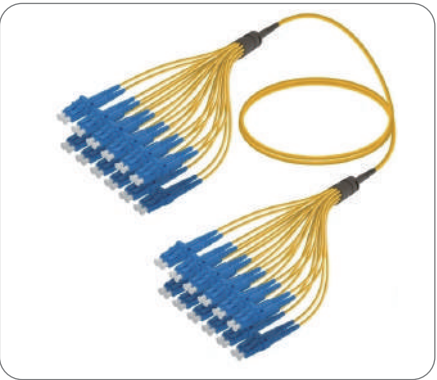
Pre-Terminated Cables



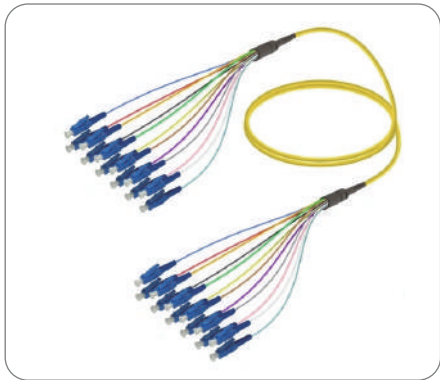
24F Pre-Terminated Double Sheath Mini Distribution Cable with 2.0mm Fan out



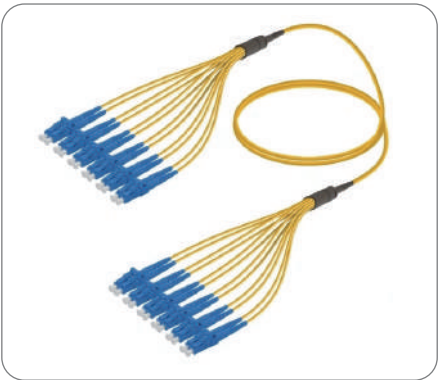
24F Pre-Terminated 3.0mm Mini Distribution Cable with 0.9mm Fan out for 5G optical network



24F Pre-Terminated 3.0mm Mini Distribution Cable With 2.0mm Fan out for telecommunication



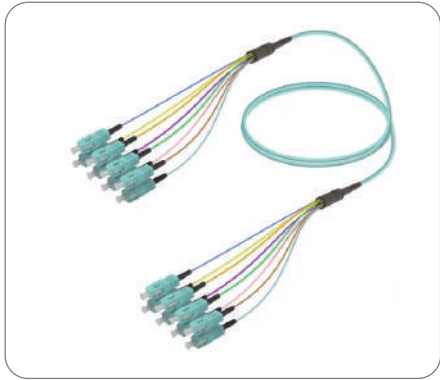
12F Pre-Terminated 3.0mm Mini Distribution Cable with 0.9mm Fan out for data center



12F Pre-Terminated 3.0mm Mini Distribution Cable with 2.0mm Fan out



8F Pre-Terminated 3.0mm Mini Distribution Cable with 2.0mm Fan out



8F Pre-Terminated 3.0mm Mini Distribution Cable with 0.9mm Fan out



24F Pre-Terminated 9.0mm Mini Distribution Cable with 2.0mm Fan out

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
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	MM	PC	≤0.20	≥30	≤0.10	≥30

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Min Bend Radius (Dynamic)		20*OD (Cable Diameter)	
Min Bend Radius (Static)		10*OD (Cable Diameter)	

Environment Conditions

Item	Criteria	Conformance
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Storage Temperature	-45~85°C	

MTP/MPO® Patch Panel

Applications

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

	
96F MPO-LCPatch panel	482x300x44.3mm
Cassette Module	4 Cassette / 48F-96F
Empty Panel Weight	2.5kg
	
1U 19inch Max Capacity 96F MPO Patch panel	482x360x44.3mm
Cassette Module	4 Cassette / 48F-96F
Empty Panel Weight	3.5kg
	
1U 19inch 144F MTP Patch panel	484x410x44mm
Cassette Module	6 Cassette / 144F
Empty Panel Weight	3kg
	
High Density 1U 144F MPO-LC Patch Panel	484x410x44mm
Cassette Module	12 Cassette / 144F
Empty Panel Weight	6.8kg
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

		
288F MPO Patch Panel For Data Center	482x380x132mm	
Cassette Module	12 Cassette / 288F	
Empty Panel Weight	5kg	
		
2U 288F MPO-LC High Density Patch Panel	435x470x88mm	
Cassette Module	24 Cassette / 288F	
Empty Panel Weight	6.4kg	
		
4U MPO Patch Panel for HD Cabling	435x470x176mm	
Cassette Module	48 Cassette / 576F	
Empty Panel Weight	11.2kg	
		
1U MDC 288F MPO Patch Panel	435x470x44mm	
Cassette Module	6 Cassette / 288F	
Empty Panel Weight	3.7kg	
Material	Cold-rolled steel	Plastic



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