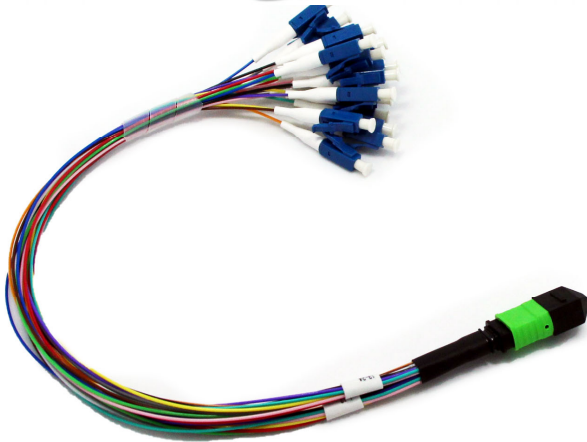


DATASHEET

8F/12F/24F MTP (Male) -LC Fan-out 0.9mm 30-50cm

Ideal for Data Center High Density Cabling System



OMC INDUSTRY CO.LIMITED

2018|En version1.0



8F/12F/24F MTP(male) -LC Fan-out 0.9mm 30-50cm Patch cable

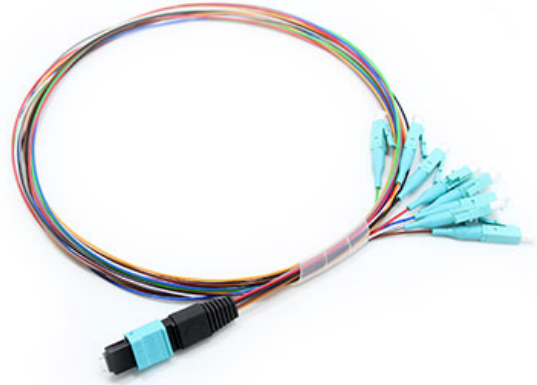
Description



MTP (male)-LC/SC/FC/ST Fan-out 0.9mm 30-50cm patch cable are designed for **MTP -LC LGX module cas-**
settes are terminated with **MTP and LC/SC/FC/ST** connector on each end. It's specifically designed for high-density
fiber patching in data centers which need space saving and reduce cable management troubles.

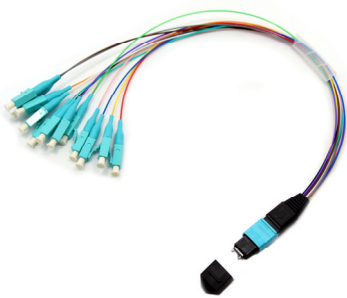
SM 8F MTP- LC/SC/FC/ST Fanout 0.9mm cable are optimized
for 40G QSFP+ PLR4 to 10G SFP+ LR optics direct connection and
high-density data center applications.

OM3/OM4 8F MTP- LC/SC/FC/ST Fanout 0.9mm cable are opti-
mized for 40G QSFP+ SR4 to 10G SFP+ SR, 100G QSFP SR4 to 25G
SFP-25G-SR-S optics direct connection and high-density data
center applications.



This 8 Fiber harness cable is used for a direct connection between
QSFP+ to (4) SFP+ ports with no patch panels or intermediate
trunks in between.



Connector	Fiber Channel
	
MTP Male Connectors	8 Fibers
Note: Female connector need to connect with male connector type.	



12F MTP- LC/SC/FC/ST Fanout 0.9mm cable is designed for 40G
LR4 PSM, 40GBASE-SR4, 40G QSFP+ PLR4 and high-density data
center. It is optimized for 10/40/100G high-density data center ap-
plications. This 12 Fiber harness cable is used for connecting (6)
SFP+ into a MTP adapter panel and MTP trunk.

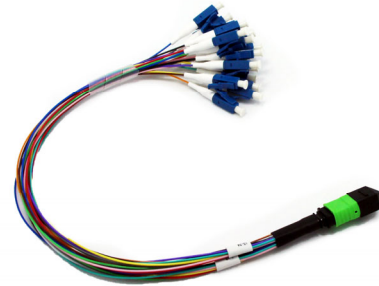
Connector	Fiber Channel
	
MTP Male Connectors	12 Fibers
Note: Female connector need to connect with male connector type.	





8F/12F/24F MTP(male) -LC Fan-out 0.9mm 30-50cm Patch cable

24F MTP- LC/SC/FC/ST Fanout 0.9mm cable

24F MTP- LC/SC/FC/ST Fanout 0.9mm cable is designed for 100GBASE-SR10 CXP/CFP Interconnect Solution, 100GBASE-LR4 and high-density data center. It is optimized for 10/40/100G high-density data center applications. This 24 Fiber harness cable is used for connecting (12) SFP+ into a MTP adapter panel and MTP trunk.



Connector	Fiber Channel
	
MTP Male Connectors	24 Fibers
Note: Female connector need to connect with male connector type.	

Products Materials

Connector	Reference	Housing Details
MTP Single mode	IEC 61754-7	SM APC: Green connectors+black boot (Standard Loss MTP) SM APC: Yellow connectors+black boot (Elite MTP)
MTP Multimode	IEC 61754-7	OM3&OM4 PC: Aqua connectors+black boot (Standard Loss&Elite MTP)

Meets IEC Standard IEC-61754-7; IEC61755, Telcordia GR-1435-CORE, JIS C5982; TIA-604-5(FOCIS5) compliant
Structured cabling per TIA-568-C
10G Fiber Channel Compliant

Other connectors' Industrial Standard:

SC: TIA/EIA, FOCIS3, GR-326.NTT-SC IEC61754-4 and JIS C5973.
LC: TIA/EIA, FOCIS10, GR-326 EIA/TIA-604-10, IEC61754-20 and JIS C5973.
FC: EIA /TIA-604-04, FOCIS4, NTT-FC, GR-326. IEC61754-13 and JIS C5973
ST: TIA/EIA, FOCIS2, GR-326. IEC61754-2 and JIS C5973 Etc.
E2000: IEC61754-15

Available for

G657A1 MTP-LC, MTP-SC, MTP-FC, MTP-SC, MTP-ST, MTP-E2000
G657A2/B2 MTP-LC, MTP-SC, MTP-FC, MTP-SC, MTP-ST, MTP-E2000
G657B3 MTP-LC, MTP-SC, MTP-FC, MTP-SC, MTP-ST, MTP-E2000
OM1 62.5/125 MTP-LC, MTP-SC, MTP-FC, MTP-SC, MTP-ST, MTP-E2000
OM2 50/125 MTP-LC, MTP-SC, MTP-FC, MTP-SC, MTP-ST, MTP-E2000
OM3 50/125 MTP-LC, MTP-SC, MTP-FC, MTP-SC, MTP-ST, MTP-E2000
OM4 50/125 MTP-LC, MTP-SC, MTP-FC, MTP-SC, MTP-ST, MTP-E2000
OM5 50/125 MTP-LC, MTP-SC, MTP-FC, MTP-SC, MTP-ST, MTP-E2000



8F/12F/24F MTP(male) -LC Fan-out 0.9mm 30-50cm Patch cable

Optical Specifications

Spec items.	Single mode (APC 8-degree polished)	Multimode (PC Flat polish)
Insertion loss (MTP) (IEC 61300-3-34)	Standard loss: $\leq 0.75\text{dB}(\text{max}), \leq 0.50\text{dB}(\text{Typical})$ Elite loss: $\leq 0.35\text{dB}(\text{max}), \leq 0.20\text{dB}(\text{Typical})$	Standard loss: $\leq 0.6\text{dB}(\text{max}), \leq 0.50(\text{Typical})$ Elite Low loss: $\leq 0.35\text{dB}(\text{max}), \leq 0.20\text{dB}(\text{Typical})$
Insertion loss (LC/SC/FC/ST) (IEC 61300-3-6)	$\leq 0.3\text{dB}$	$\leq 0.3\text{dB}$
Return loss(MTP)	$\geq 60\text{dB}$ (8degree polishing)	$\geq 25\text{dB}$
Return loss(LC/SC/FC/ST)	APC $\geq 60\text{dB}$; UPC $\geq 50\text{dB}$	$\geq 35\text{dB}$
Durability	$< 0.3\text{dB}$ typical change, 200 matings	
Interchangeability	$\leq 0.2\text{dB}$	
Tensile strength	$> 70\text{N}$	
Operating Temperature	-40 to $+ 85^\circ\text{C}$	

MTP End-Face 3D Interference Index

Item (IEC-61300-3-30)		Minimum	Maximum
Radius of curvature (mm)	ROC-X(ABS)	2000	\
	ROC-Y(ABS)	50mm	\
Angle	Angle-X	-0.2°	-0.2°
	Angle-Y	APC 7.85° PC -0.2°	8.15° -0.2°
Fiber height (nm)		1000nm	3500nm
Max.DH.All Fiber:		-300nm	300nm
DH.Adj:		-300nm	300nm
DH.Ave Fiber:		-300nm	300nm
Core Dip:	SM	N/A	N/A
	MM	-200nm	300nm

LC/SC/FC/ST End-Face Geometry 3D Interference Index

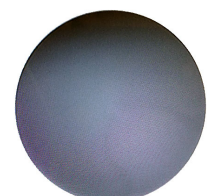
Items	Connector	PC End-face	APC End-face
Radius of Curvature	SC/FC/ST	10~25 mm	5~12 mm
	LC/MU	7~25 mm	5~15 mm
Apex Offset		$\leq 50 \mu\text{m}$	
Fiber Spherical Height		$\pm 100 \text{ nm}$	
Angular Offset		-----	$8^\circ \pm 0.5^\circ$

End-face Quality (LC/SC/FC/ST SM)

Zone	Range (μm)	Scratches	Defects	Reference
A: Core	0 to 25	None	None	IEC 61300-3-35:2015
B: Cladding	25 to 115	None	None	
C: Adhesive	115 to 135	None	None	
D: Contact	135 to 250	None	None	
E: Rest of ferrule		None	None	



SM UPC



SM APC

End-face Quality (LC/SC/FC/ST MM)

Zone	Range (μm)	Scratches	Defects	Reference
A: Core	0 to 65	None	None	IEC 61300-3-35:2015
B: Cladding	65 to 115	None	None	
C: Adhesive	115 to 135	None	None	
D: Contact	135 to 250	None	None	
E: Rest of ferrule		None	None	



MM PC



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Packaging

This easily taken and well-protected fiber patch cable package has been labelled and marked by OMC as default .Standard carton size : 34*22*15 cm; 44*34*24 cm ; 54*39*34 cm . Which carton to be used depends on goods Qty . Packing can be customized.



1, Paper Board+Self-seal PE Bag



2 Bubble Bag



3, Paper Carton



4, fumig-free Pallet

OME service

1. Cable color, printing word, material of cable jacket, connector's color
2. OEM Label, Identify ring, cable's label, box, shipping marks
3. Different quality Level.

Order Index

Products	Fibers	Fiber mode	Connector A	Connector B
M1-Senko MPO	1-8Fibers	1- G652D	1-SM Standard Female	1-LC UPC standard
M2-MTP Male	2-12Fibers	2-G657A1	2-SM Standard male	2-LC APC standard
M3-China brand MPO	3-16Fibers	3-G657A2/B2	3-SM super low loss Female	3-SC UPC Standard connector
M4-Senko MPO with pull/Push tab	4-20Fiber	4-G657B3	4-SM super low loss male	4-FC UPC Standard connector
M5-MTP with pull/Push tab	5-24Fibers	5-OM1 BIF	5-MM Standard Female	5-ST UPC Standard connector
		6-OM2 BIF	6-MM Standard male	6-SC APC Standard connector
		7-OM3 BIF	7-MM super low loss Female	7-FC APC Standard connector
		8-OM4 BIF	8-MM super low loss male	8-E2000 UPC Standard connector
		9-OM5 BIF		9-E2000 APC Standard connector