

# Optical Passive Product Map

Open Optical Network Device Explore

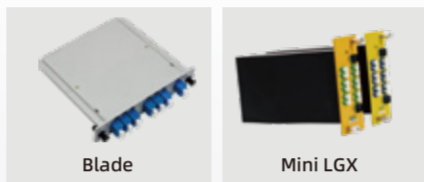


- ▶ Passive WDM Systems
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- ▶ Fast Fiber Connectors
- ▶ LC/VSFF/MTP Patch Cables
- ▶ MTP Cables Assembly
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## Passive WDM Systems

### 01 5G OMUX

GIGALIGHT's 5G OMUX products are specially designed for 5G fronthaul. These modules are based on the thin-film filter (TFF) technology, and are compliant with telecommunication standards, providing a high-capacity and low-cost transmission solution for 5G operators. The 5G OMUX series include 3 types of CWDM, LWDM and DWDM, with 6- or 12-wavelength optional, and support single fiber bidirectional transmission for 3 or 6 channel services. In addition, a variety of packages can be customized, such as blade type and Mini LGX cassette.



#### ▶ 5G CWDM OMUX

Parameter	CWDM6	CWDM12
Center Wavelength (nm)	1271~1371	1271~1371, 1471~1571
Center Wavelength Deviation (nm)	±1.5	±1.5
1dB Passband Width (nm)	≥13	≥13
Pass Band Flatness (dB)	≤0.5	≤0.5
Channel Insertion Loss (dB)	≤2.1	≤2.5
Adjacent Channel Isolation (dB)	≥25	≥25
Non-adjacent Channel Isolation (dB)	≥30	≥30
Wavelength Thermal Stability (nm/°C)	≤0.002	≤0.002
Insertion Loss Thermal Stability (dB/°C)	≤0.007	≤0.007
Package	Blade	Blade

#### ▶ 5G DWDM OMUX

Parameter	DWDM6	DWDM12
Center Wavelength (nm)	1542.94~1546.92	1547.72~1556.55
Channel Spacing (nm)	0.8	0.8
0.5dB Passband Width (nm)		ITU±0.11
Passband Flatness (dB)		≤0.5
Link Loss (dB)	≤4.3	≤4.7
Adjacent Channel Isolation (dB)	≥25	≥25
Non-adjacent Channel Isolation (dB)	≥35	≥35
Wavelength Thermal Stability (nm/°C)	≤0.002	≤0.002
Insertion Loss Thermal Stability (dB/°C)	≤0.007	≤0.007
Package	Blade	Mini LGX

#### ▶ 5G LWDM OMUX

Parameter	LWDM6	LWDM12
Center Wavelength(nm)	1286.66~1309.14	1269.23~1318.35
Center Wavelength Deviation (nm)	±0.5	±0.5
1dB Passband Width (nm)	≥2.3	≥2.3
Passband Flatness (dB)	≤0.5	≤0.5
Adjacent Channel Isolation (dB)	≥25dB	≥25dB
Non-adjacent Channel Isolation (dB)	≥30	≥30
Wavelength Thermal Stability(nm/°C)	≤0.002	≤0.002
Insertion Loss Thermal Stability(dB/°C)	≤0.007	≤0.007
Package	Blade	Mini LGX

### Shenzhen Gigalight Technology Co., Ltd.

- 📍 17 F, Zhongtai Tiancheng Building, Shenzhen
- ☎ +86-755-26734300
- ☎ +86-755-26738181
- ✉ sales@gigalight.com
- 🌐 www.gigalight.com

### 02 xWDM Mux/Demux

GIGALIGHT's xWDM/WDM-PON products are based on the thin-film-filter (TFF) technology, including CWDM/DWDM MUX DEMUX, CWDM/DWDM OADM, CCWDM/CDWDM MUX DEMUX and Combo WDM-PON modules. These modules adopt excellent structural industrial design, featuring ultra-low insertion loss, ultra-high thermal stability and unparalleled reliability. They are compliant with carrier-grade reliability standards, and can be customized in ABS box, LGX cassette and 1U 19" rack mount and other packages, providing a low-cost solution with high bandwidth and capacity for high-speed and large-capacity transmission applications such as metro, long-haul DCI, and WDM-PON.



#### ▶ CWDM/DWDM MUX DEMUX

CWDM MUX/DEMUX	2CH	4CH	8CH	16CH	18CH
Center Wavelength (nm)	1271 ~ 1611				
Channel Spacing (nm)	20				
0.5dB Passband Width (nm)	ITU±6.5				
Passband Flatness (dB)	≤0.5				
Channel Insertion Loss (dB)	≤1.2	≤1.8	≤3.0	≤3.4	≤3.7
Link Loss (dB)	≤2.1	≤2.7	≤3.9	≤4.6	≤5.3
Adjacent Channel Isolation (dB)	≥30				
Non-adjacent Channel Isolation (dB)	≥45				
PDL (dB)	≤0.2				

DWDM MUX/DEMUX	2CH	4CH	8CH	16CH
Operating Wavelength (nm)	C-band			
Channel Spacing (nm)	0.8 or 1.6			
0.5dB Passband Width (nm)	ITU±0.11			
Passband Flatness (dB)	≤0.5			
Channel Insertion Loss (dB)	≤1.5	≤1.8	≤2.6	≤4.2
Link Loss (dB)	≤2.7	≤3.0	≤3.8	≤5.4
Adjacent Channel Isolation (dB)	≥30			
Non-adjacent Channel Isolation (dB)	≥45			
PDL (dB)	≤0.2			

CWDM OADM/DWDM OADM	1CH	2CH	3CH	4CH	5CH	6CH	7CH	8CH
Nominal Center Wavelength (nm)	1271~1611/ITU Grid (Channel Spacing 0.8nm or 1.6nm)							
0.5dB Passband Width (nm)	ITU±6.5/ITU±0.11							
Passband Flatness (dB)	≤0.5							
Insertion/Sub-channel Insertion Loss (dB)	≤1.2	≤1.6	≤1.8	≤2.0	≤2.2	≤2.4	≤2.8	≤3.2
Input/Output Channel Insertion Loss (dB)	≤1.0	≤1.6	≤1.8	≤2.2	≤3.2	≤3.4	≤3.8	≤4.0
Adjacent Channel Isolation (dB)	≥30							
Non-adjacent Channel Isolation (dB)	≥40							
PDL (dB)	≤0.2/≤0.1							

#### ▶ Combo WDM-PON

These modules support single-fiber bidirectional transmission through the multiplexing and demultiplexing of up to 8 wavelengths.

Service Channel	GPON	XG-PON1	NG-PON2	RF Video
Uplink Wavelength(nm)	1290 ~ 1330	1260 ~ 1280	1524 ~ 1544	
Downlink Wavelength (nm)	1480 ~ 1500	1575 ~ 1581	1596 ~ 1603	1550 ~ 1560
Passband Flatness (dB)			≤0.5	
Channel Insertion Loss (dB)	≤1.0	≤1.2	≤2.0	
Adjacent Channel Isolation (dB)	≥30			
PDL (dB)	≤0.2			

### 03 CCWDM/CDWDM MUX DEMUX

These modules adopt free-space optical technology to achieve a smaller size and can be used in applications where space is limited, such as integration into the chassis of wavelength division equipment.



CCWDM MUX DEMUX	Mini 4CH	2x4CH	4CH	8CH	12CH	18CH
Center Wavelength (nm)	1270 ~ 1610					
Operating Wavelength (nm)	1260 ~ 1620					
Channel Spacing (nm)	20					
0.5dB Channel passband (nm)	ITU±6.5					
Passband Flatness (dB)	≤0.3	≤0.4	≤0.4	≤0.4	≤0.4	≤0.4
Channel Insertion Loss (dB)	≤1.5	≤1.4	≤1.2	≤1.5	≤2.0	≤2.5
Adjacent Channel Isolation (dB)	≥30					
Non-adjacent Channel Isolation (dB)	≥40					
Return Loss (dB)	≥45					
Directivity (dB)	≥50					
PDL (dB)	≤0.2					
Polarization Mode Dispersion (ps)	≤0.1					
Optical Power (mW)	≤300					
Operating Temperature (°C)	-5 ~ +75					
Storage Temperature (°C)	-40 ~ +85					
Dimension (mm)	32x26x8	49x25x8	45x25x8		50x50x8	

CDWDM MUX DEMUX	4CH	8CH
Center Wavelength (nm)	ITU±0.07	
0.5dB Passband Width (nm)	ITU±0.11	
Operating Wavelength (nm)	C-band	
Channel Spacing (nm)	0.8	
Channel Insertion Loss (dB)	≤1.4	≤2.0
Adjacent Channel Isolation (dB)	≥25	
Non-adjacent Channel Isolation (dB)	≥35	
Passband Flatness (dB)	≤0.5	
PDL (dB)	≤0.3	
Polarization Mode Dispersion (ps)	≤0.1	
Optical Power (mW)	≤500	
Return Loss (dB)	≥45	
Directivity (dB)	≥50	
Operating Temperature (°C)	-5 ~ +65	
Storage Temperature (°C)	-40 ~ +85	
Dimension (mm)	55x25x6.5	

### 04 AAWG

GIGALIGHT's AAWG products are based on the arrayed waveguide grating technology, and include 50GHz, 100GHz and 75GHz series. These modules adopt excellent industrial structural design, featuring ultra-low insertion loss, ultra-high thermal stability and unparalleled reliability. They are compliant with carrier-grade reliability standards, and can be customized in 19" rack-mount and standard metal modules and other various packages, providing a low-cost solution with high bandwidth capacity for high-speed and large-capacity transmission applications such as metro and long-haul DCI.



AAWG Number of Channels	32/40/48				64				80/96			
Operating Wavelength (nm)	C-band								75			
Channel Spacing (GHz)	100								±0.05			
Wavelength Accuracy (nm)	±0.05								±0.04			
Passband Type	Gaussian				Flat Top				Flat Top			
1dB Channel Passband (nm)	≥0.2				≥0.38				≥0.3			
3dB Channel Passband (nm)	≥0.4				≥0.58				≥0.55			
Passband Flatness (dB)	≤1.5				≤0.5				≤0.5			
Insertion Loss Level	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
Channel Insertion Loss (dB)	≤4.0	≤3.5	≤6.5	≤5.0	≤6.0	≤7.0	≤6.0	≤6.0	≤7.0	≤6.0	≤6.0	
Insertion Loss Uniformity (dB)	≤1.5											
Adjacent Channel Crosstalk (dB)	≥26				≥23				≥8			
Non-adjacent Channel Crosstalk (dB)	≥26				≥26				≥30			
Total Crosstalk (dB)	≥21				≥25				≥20			
Return Loss	≥40											
PDL (dB)	≤0.7	≤0.6	≤0.5	≤0.4	≤0.7				≤0.7			
Polarization Mode Dispersion (ps)	≤0.5											
Dispersion (ps/nm)	±20											
Operating Temperature (°C)	-5 ~ +75											
Storage Temperature (°C)	-40 ~ +85											
Package	19" Rack Mount or Standard Metal Module				19" Rack Mount				19" Rack Mount (interleaved)			

## Fiber Optic Splitters

### 01 PLC Splitters

GIGALIGHT's PLC splitter is manufactured based on silicon optical planar waveguide technology. It has the characteristics of small size, high reliability, wide operating wavelength range, and high channel consistency. It is widely used in PON networks to achieve optical signal power splitting. GIGALIGHT's PLC splitters include 1×N and 2×N series, optional with various packages, such as bare fiber, mini module, ABS box, blade, LGX cassette, rack mount, wall mount etc. In addition, GIGALIGHT also provides special applications with PM PLC splitters, which adopt polarization-maintaining fibers to achieve polarization-maintaining coupling and light splitting.

#### Highlights

- Ultra-wide operating wavelength range
- Low insertion loss and good channel uniformity
- Low PDL, WDL and TDL
- High return loss and directivity
- High reliability and stability



#### ▶ Bare Fiber, Mini Module, and ABS Box

PLC Splitter	1×2	1×4	1×8	1×16	1×32	1×64	2×2	2×4	2×8	2×16	2×32	2×64
Operating Wavelength (nm)	1260 ~ 1650											
Fiber Type	G657A or customized ***											
Insertion Loss (dB) Class 5*	≤4.0	≤7.3	≤10.5	≤13.7	≤16.9	≤21.0	≤4.0	≤7.6	≤11.0	≤14.4	≤17.5	≤21.0
Insertion Loss (dB) Class 9*	≤3.8	≤7.1	≤10.2	≤13.5	≤16.5	≤20.5	≤4.0	≤7.6	≤11.0	≤14.4	≤17.5	≤21.0
Insertion Loss Uniformity (dB)	≤0.4	≤0.6	≤0.8	≤1.2	≤1.5	≤2.0	≤0.6	≤1.0	≤1.2	≤1.5	≤1.8	≤2.2
Return Loss (dB)	≥55											
PDL (dB)	≤0.2	≤0.2	≤0.2	≤0.25	≤0.3	≤0.35	≤0.2	≤0.2	≤0.3	≤0.3	≤0.4	≤0.4
Directivity (dB)	≥55											
WDL (dB)	≤0.3	≤0.3	≤0.3	≤0.5	≤0.5	≤0.5	≤0.3	≤0.4	≤0.5	≤0.5	≤0.5	≤0.5
TDL (dB)	≤0.4	≤0.4	≤0.4	≤0.5	≤0.5	≤0.5	≤0.4	≤0.4	≤0.4	≤0.5	≤0.5	≤0.5
Operating Temperature (°C)	-40 ~ +85											
Storage Temperature (°C)	-40 ~ +85											
Bare Fiber Dimension LxWxH (mm)**	40x4x4	40x4x4	40x4x4	50x4x4	50x7x4	60x12x4	40x4x4	50x4x4	50x4x4	50x7x4	60x7x4	60x12x4
Mini Module Dimension LxWxH (mm)**	50x7x4	50x7x4	60x7x4	60x12x4	80x20x6	N/A	60x7x4	60x7x4	60x7x4	60x12x4	80x20x6	N/A
ABS Box Dimension LxWxH (mm)**	100x80x10	100x80x10	100x80x10	120x80x18	140x115x18	140x115x18	100x80x10	100x80x10	100x80x10	120x80x18	140x115x18	140x115x18

\*Without connectors  
\*\*Dimensions of the module section only, excluding fibers and connectors  
\*\*\*GIGALIGHT can provide Mini Module and ABS Box PM PLC splitters with polarization maintaining fiber (1×N series only)

### 02 FBT Couplers

GIGALIGHT's FBT couplers are manufactured based on fused taper technology, support single-mode dual-window optical power distribution, and are widely used in passive optical networks. GIGALIGHT provides FBT couplers with 4 types of port configuration, including 1×2, 2×2, 1×3 and 3×3, which can all be customized for coupling ratio, fiber type, fiber length and fiber connector.



Specifications	FBT Coupler
Center Wavelength (nm)	1310/1550
Operating Bandwidth (nm)	±20
1×2/2×2 Port Configuration, Coupling Ratio and Corresponding Insertion Loss (dB)*	50/50±3.8/3.8, 55/45±3.3/4.2, 60/40±2.8/4.8, 65/35±2.4/5.4, 70/30±3.1/6.0, 75/25±1.9/6.8, 80/20±1.5/7.8, 85/15±1.2/9.2, 90/10±1.0/11.3, 95/5±0.7/14.4, 99/1±0.5/22.6
1×3/3×3 Port Configuration, Coupling Ratio and Corresponding Insertion Loss (dB)*	33/33/33±6.2/6.2/6.2, 10/45/45±11.5/4.7/4.7, 20/40/40±8.4/5.4/5.4, 30/35/35±6.2/5.6/5.6, 40/30/30±5.1/6.3/6.3, 60/20/20±3.4/8.5/8.5, 70/15/15±2.7/9.4/9.4, 80/10/10±2.0/11.6/11.6
Insertion Loss Uniformity (dB)	33/33/33±1.4
Return Loss (dB)	≥50 (UPC), ≥55 (APC)
PDL (dB)	≤0.2
Operating Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +85
Bare Fiber Dimension ΦxL (mm)**	2.9x50, 3.05x65
Mini Module Dimension LxWxH (mm)**	96.5x12x10

\*\*Without connectors  
\*\*\*Dimensions of the module section only, excluding fibers and connectors

## Fast Fiber Connectors

### 01 Fast Fiber Connectors

GIGALIGHT provides multiple types of fast fiber connectors, of which fiber types and connector types can be customized according to specific usage scenarios to meet all optical connection requirements in the access network ODN. The fast fiber connectors adopt high-quality optical fibers and connectors. Based on the mature manufacturing process and excellent product design, they can provide end users with excellent performance and experience.

#### Highlights

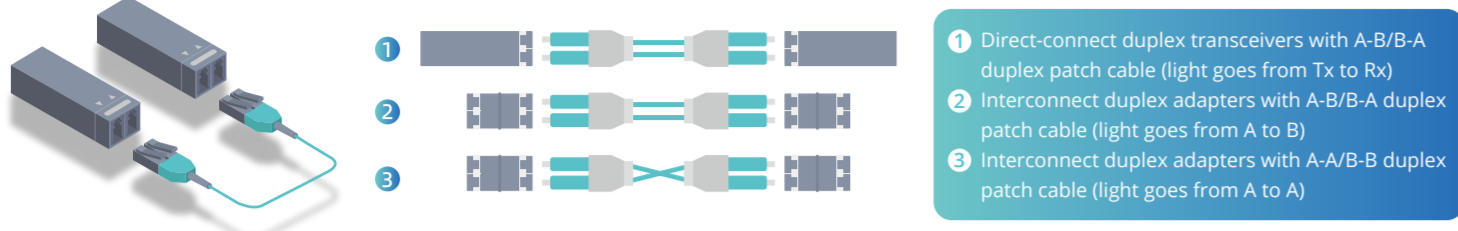
- Small and portable
- Directly connected to ONU
- Elastically fixed axially to avoid wrong connection
- High tensile strength (>100N), no other protection is required
- Easy and fast installation, average connection time of 100s, high success rate
- Precision ceramic components with coaxial auto-centering and outstanding durable optics
- Triple clamps with bare fiber, tight buffers and cables, etc., can be used as patch cords
- Integrated protection of the housing withstands harsh user environments



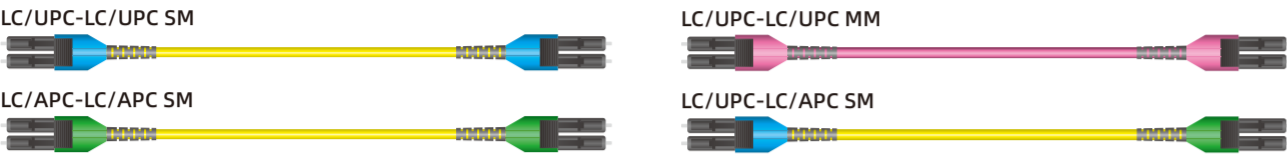
# LC/VSFF/MTP Patch Cables

## 01 LC Duplex Patch Cables

GIGALIGHT provides a series of LC duplex patch cables with A-B/B-A or A-A/B-B polarity types, supporting the following three interconnection application scenarios.

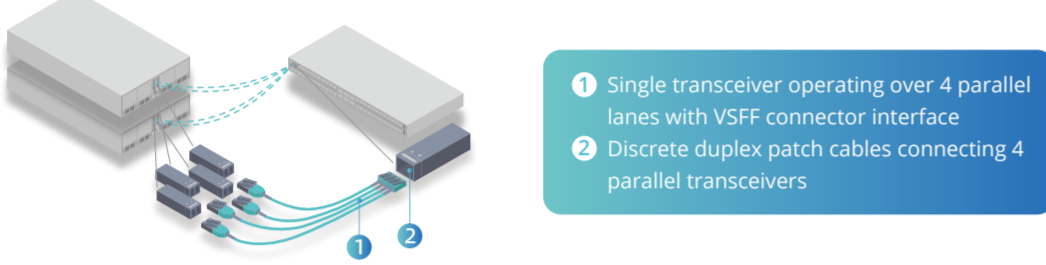


### LC → LC

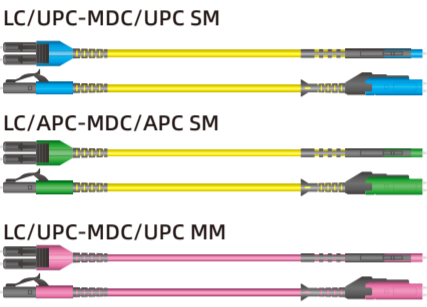


## 02 VSFF Duplex Patch Cables

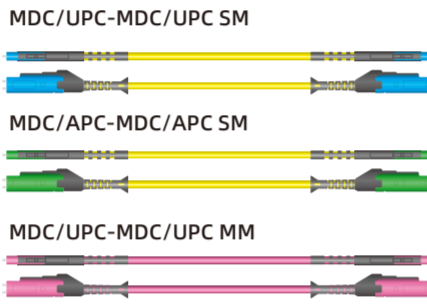
In 2023, GIGALIGHT has launched a new series of duplex patch cables with very small form factor (VSFF) fiber optic connectors, supporting optical transceivers with MDC/SN interfaces. The following are examples of application scenarios.



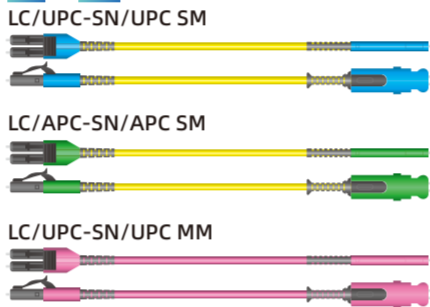
### LC → MDC



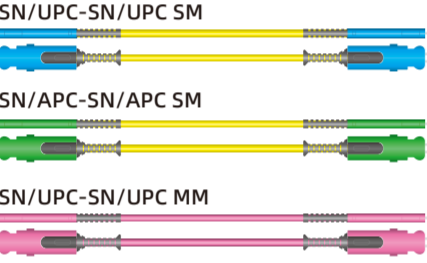
### MDC → MDC



### LC → SN



### SN → SN



**Ordering**

P/N: GP-SNU-LCU-MM4-DX-LS-001

Product	A-end Connectors Type	Connector Type	Fiber	Core	Jacket	Length
GP-Patch Cables	SNU=SN/UPC SNA=SN/APC MDU=MDC/UPC MDA=MDC/APC	LCU=LC/UPC LCA=LC/APC	SM1=G.652.D SM2=G.657A1 SM3=G.657A2 MM1=OM1 MM2=OM2 MM3=OM3 MM4=OM4 MM5=OM5	DX=Duplex	PV=PVC LS=LSZH OP=OFNP OR=OFNR	001=1m 002=2m ..... 999=999m

## 02 MTP-MTP Breakout Cable

High-Speed Parallel Transceivers to Low-Speed Ones

### 16-Fiber MTP to 2x 8-Fiber MTP

- MMF series**
  - 200G OSFP/QSFP-DD SR8 to 2x100G QSFP28 SR4
  - 400G OSFP/QSFP-DD SR8 to 2x200G QSFP56 SR4
  - 800G OSFP/QSFP-DD SR8 to 2x400G QSFP112 SR4
- SMF series**
  - 200G OSFP/QSFP-DD PSM8 10km to 2x100G QSFP28 PSM4 10km
  - 400G OSFP/QSFP-DD PSM8 2km to 2x200G QSFP56 XDR4
  - 400G OSFP/QSFP-DD PSM8 10km to 2x200G QSFP56 PLR4
  - 800G OSFP/QSFP-DD DR8 to 2x400G QSFP112 DR4
  - 800G OSFP/QSFP-DD DR8+/XDR8 to 2x400G QSFP112 DR4+/XDR4
  - 800G OSFP/QSFP-DD PLR8 to 2x400G QSFP112 PLR4

### 24-Fiber MTP to 3x 8-Fiber MTP

- MMF series**
  - 120G CXP SR12 to 3x40G QSFP+ SR4
  - 300G CXP2 SR12 to 3x100G QSFP28 SR4

**Ordering**

P/N: GMF-1-24-F-MM4-LS-1000-3MTP-010

Product	IL Type	Core	PIN	Fiber	Jacket	Breakout Length	B-end Connectors	MPO Type	Length
GMF=MPO/MTP Breakout Cables	0=Standard 1=Elite	16=16 24=24	M=Male F=Female	SM1=G.652.D SM2=G.657A1 SM3=G.657A2 MM1=OM1 MM2=OM2 MM3=OM3 MM4=OM4 MM5=OM5	PV=PVC LS=LSZH OP=OFNP OR=OFNR	0500=500mm 1000=1000mm	2=2 3=3	MTP=MTP/PC MTA=MTP/APC MPP=MPO/PC MPA=MPO/PC	001=1m 002=2m ..... 999=999m

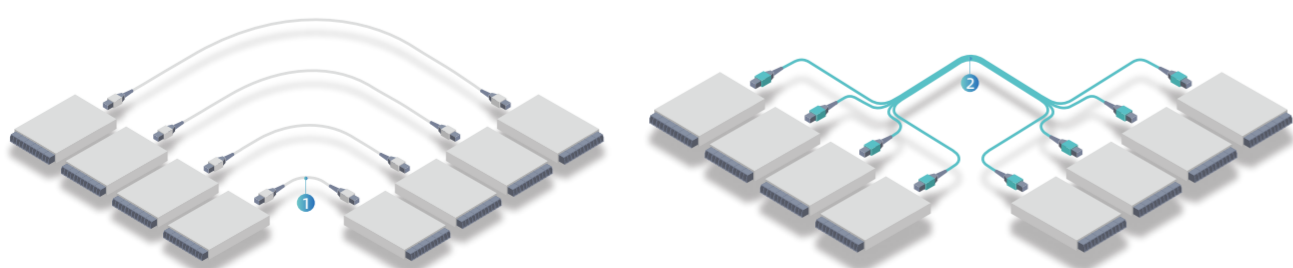
2xMTP12 to 3xMTP8

P/N: GMF-1-24-F-MM4-LS-1000-1000-2X3MTP-010

Product	IL Type	Core	PIN	Fiber	Jacket	A-end Length	B-end Length	A/B-end Connectors	MPO Type	Length
GMF=MPO/MTP Breakout Cables	0=Standard 1=Elite	24=24	M=Male F=Female	SM1=G.652.D SM2=G.657A1 SM3=G.657A2 MM1=OM1 MM2=OM2 MM3=OM3 MM4=OM4 MM5=OM5	PV=PVC LS=LSZH OP=OFNP OR=OFNR	0500=500mm 1000=1000mm	0500=500mm 1000=1000mm	2X3=2x3	MTP=MTP/PC MTA=MTP/APC MPP=MPO/PC MPA=MPO/PC	001=1m 002=2m ..... 999=999m

## 03 MTP Trunk Cables

GIGALIGHT provides Base-8, Base-12 and Base-24 MTP trunk cables, including discrete series (8/12/24 fibers) and integrated series (16 to 288 fibers).



- Discrete MTP trunk cable (equivalent to a single MTP patch cable)
- Integrated MTP trunk cable (integrated by more than two MTP patch cables)

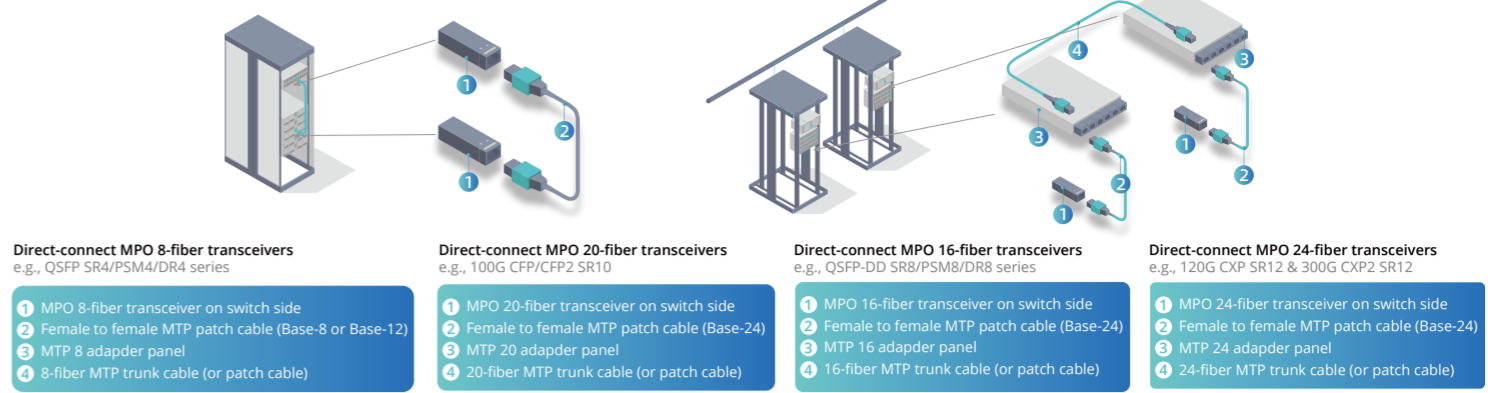
**Ordering**

P/N: GMT-C-1-96-F-MM4-LS-0500-0500-MTP-050

Product	Polarity Method	IL Type	Core	PIN	Fiber	Jacket	A-end Length	B-end Length	MPO Type	Length
GMT=MPO/MTP Trunk Cables	A=Straight B=Reversed C=Pairs Flipped R=Corning	0=Standard 1=Elite	08=8 12=12 16=16 24=24 36=36 48=48 64=64 72=72	M=M to M F=D to D H=M to D	SM1=G.652.D SM2=G.657A1 SM3=G.657A2 MM1=OM1 MM2=OM2 MM3=OM3 MM4=OM4 MM5=OM5	PV=PVC LS=LSZH OP=OFNP OR=OFNR	0500=500mm 1000=1000mm	0500=500mm 1000=1000mm	MTP=MTP/PC MTA=MTP/APC MPP=MPO/PC MPA=MPO/PC	001=1m 002=2m ..... 999=999m

## 03 MTP Patch Cables

GIGALIGHT provides Base-8 (8-fiber), Base-12 (8-fiber) and Base-24 (16-fiber, 20-fiber or 24-fiber) MTP patch cables, which can support all 4-, 8-, 10- and 12-channel parallel transceivers. The following are application examples:



**Ordering**

P/N: GMP-C-1-08-F-MM4-LS-MTP-001

Product	Polarity Method	IL Type	Core	PIN	Fiber	Jacket	MPO Type	Length
GMP=MPO/MTP Patch Cables	A=Straight B=Reversed C=Pairs Flipped R=Corning	0=Standard 1=Elite	04=4 08=8 12=12 16=16 20=20 24=24	M=M to M F=D to D H=M to D	SM1=G.652.D SM2=G.657A1 SM3=G.657A2 MM1=OM1 MM2=OM2 MM3=OM3 MM4=OM4 MM5=OM5	PV=PVC LS=LSZH OP=OFNP OR=OFNR	MTP=MTP/PC MTA=MTP/APC MPP=MPO/PC MPA=MPO/PC	001=1m 002=2m ..... 999=999m

# MTP Cables Assembly

GIGALIGHT provides a variety of MTP breakout cables, including MTP-LC series and MTP-MTP series, which support the connection between one high-speed and multiple low-speed optical transceivers, as well as MTP series applications. The following are several application examples.

## 01 MTP-LC Breakout Cable

Parallel Transceivers to Duplex Transceivers

### 8-Fiber MTP to 4 Duplex LC

- MMF series**
  - 40G QSFP+ SR4/CSR4 to 4x10G SFP+ SR
  - 100G QSFP28 SR4/eSR4 to 4x25G SFP28 SR/eSR4
  - 200G QSFP56 SR4 to 4x50G SFP56 SR
  - 400G OSFP/QSFP-DD/QSFP112 SR4 to 4x100G QSFP28 SR1
- SMF series**
  - 40G QSFP+ PLR4 to 4x10G SFP+ LR
  - 100G QSFP28 PLR4 to 4x25G SFP28 LR
  - 200G QSFP56 DR4 to 4x50G SFP56 DR
  - 200G QSFP56 PLR4 to 4x50G SFP56 LR
  - 400G OSFP/QSFP-DD/QSFP112 DR4 to 4x100G QSFP28 DR1
  - 400G OSFP/QSFP-DD/QSFP112 DR4+ to 4x100G QSFP28 FR1
  - 400G OSFP/QSFP-DD/QSFP112 DR4+/XDR4 to 4x100G QSFP28 FR1
  - 400G OSFP/QSFP-DD/QSFP112 PLR4 to 4x100G QSFP28 LR1

### 16-Fiber MTP to 8 Duplex LC

- MMF series**
  - 200G OSFP/QSFP-DD SR8 to 8x25G SFP28 SR
  - 400G OSFP/QSFP-DD SR8 to 8x50G SFP56 SR
  - 800G OSFP/QSFP-DD SR8 to 8x100G QSFP28 SR1
- SMF series**
  - 200G OSFP/QSFP-DD PSM8 10km to 8x25G SFP28 LR
  - 400G OSFP/QSFP-DD PSM8 2km to 8x50G SFP56 FR
  - 400G OSFP/QSFP-DD PSM8 10km to 8x50G SFP56 LR
  - 800G OSFP/QSFP-DD DR8 to 8x100G QSFP28 DR1
  - 800G OSFP/QSFP-DD DR8+/XDR8 to 8x100G QSFP28 FR1
  - 800G OSFP/QSFP-DD PLR8 to 8x100G QSFP28 LR1

### 20-Fiber MTP to 10 Duplex LC

- MMF series**
  - 100G CFP SR10/CSR10 to 10x10G SFP+ SR
  - 100G CFP2 SR10/CSR10 to 10x10G SFP+ SR

### 24-Fiber MTP to 12 Duplex LC

- MMF series**
  - 120G CXP SR12 to 12x10G SFP+ SR
  - 300G CXP2 SR12 to 12x25G SFP28 SR

**Ordering**

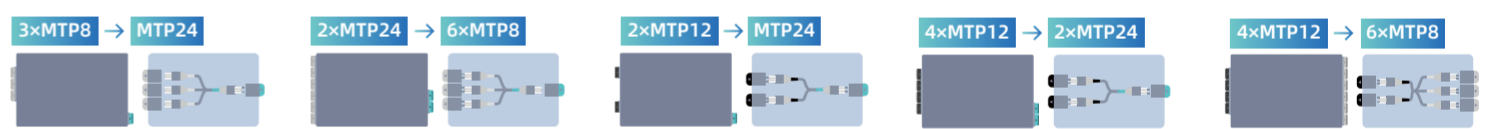
P/N: GMF-1-08-F-MM4-LS-1000-MTP-LC/UPC-010

Product	IL Type	Core	PIN	Fiber	Jacket	Breakout Length	A-end Connectors Type	B-end Connectors Type	Length
GMF=MPO/MTP Breakout Cables	0=Standard 1=Elite	08=8 12=12 16=16 20=20 24=24	M=Male F=Female	SM1=G.652.D SM2=G.657A1 SM3=G.657A2 MM1=OM1 MM2=OM2 MM3=OM3 MM4=OM4 MM5=OM5	PV=PVC LS=LSZH OP=OFNP OR=OFNR	0500=500mm 1000=1000mm	MTP=MTP/PC MTA=MTP/APC MPP=MPO/PC MPA=MPO/PC	LCU=LC/UPC LCA=LC/APC	001=1m 002=2m ..... 999=999m

# MTP Attachment

## 01 MTP Transition Cassettes

GIGALIGHT provides a series of MTP-MTP transition cassettes that support the conversion between Base-8, Base-12 and Base-24.



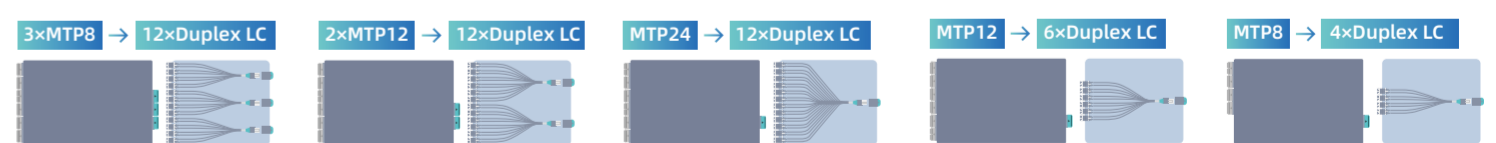
**Ordering**

P/N: GMC-C-1-12-M-MM4-LS-MTP

Product	Polarity Method	IL Type	Core	PIN	Fiber	Jacket	MPO Type
GMC=MPO/MTP Transition Cassette	A=Straight B=Reversed C=Pairs Flipped R=Corning	0=Standard 1=Elite	08=8 12=12 24=24 48=48	M=M to M F=D to D	SM1=G.652.D SM2=G.657A1 SM3=G.657A2 MM1=OM1 MM2=OM2 MM3=OM3 MM4=OM4 MM5=OM5	PV=PVC LS=LSZH OP=OFNP OR=OFNR	MTP=MTP/PC MTA=MTP/APC MPP=MPO/PC MPA=MPO/PC

## 02 MTP-LC Transition Cassettes

GIGALIGHT provides a series of MTP-LC transition cassettes that can connect the LC patch cables to MTP cabling system flexibly.



**Ordering**

P/N: GMC-C-1-12-M-MM4-LS-MTP-LCU

Product	Polarity Method	IL Type	Core	PIN	Fiber	Jacket	Back Adapter Type	Front Adapter Type
GMC=MPO/MTP Transition Cassette	A=Straight B=Reversed C=Pairs Flipped R=Corning	0=Standard 1=Elite	08=8 12=12 24=24 48=48	M=Male F=Female	SM1=G.652.D SM2=G.657A1 SM3=G.657A2 MM1=OM1 MM2=OM2 MM3=OM3 MM4=OM4 MM5=OM5	PV=PVC LS=LSZH OP=OFNP OR=OFNR	MTP=MTP/PC MTA=MTP/APC MPP=MPO/PC MPA=MPO/PC	LCU=LC/UPC LCA=LC/APC

## 03 MTP Patch Panels/Adapter Panels/Cabling Polarity

### MTP Patch Panels

MPO/MTP Patch Panels
1U, 2U, 3U, 4U
3, 4, 6, 8, 12

### MTP Adapter Panels

Product Name	MTP Adapter Panels
Panels Number	6, 8, 12, 18

### MTP Cabling Polarity

Supported core number	4/8/12-Fiber
Type	Straight/Reversed/Pairs Flipped/Corning
Max Detection Length	450m
Single Detection Time (close inspection mode)	Less than 1 second
Single Detection Time (long-distance inspection mode)	Less than 4 second