

Specification of Fiber Optical Cables Series

- **Standard Fiber Patch Cables Series**
- **MPO Fiber Patch Cables Series**
- **MPO to LC Breakout Cables Series**

Standard Fiber Patch Cord Series



Description

Fiber patch cord, often called fiber patch cable, fiber jumper, or fiber patch lead is a length of fiber cable that terminated with fiber optic connectors (LC and SC) at each end. The connectors allow fiber optic patch cord to be rapidly connected to an optical switch or other telecommunications/computer device. Fiber jumper is a key player for indoor use, like in server rooms or in data centers.

Applications

- ☐ CATV
- ☐ Data processing networks
- ☐ Telecommunication networks
- ☐ WANs and LANs

Features

- ☐ Connector options: LC, SC types
- ☐ Simplex available
- ☐ Choice of cable color and length
- ☐ LSZH cable jacket

Parameters

Item	Unit	Single Mode Fiber		Multi-mode Fiber
Insertion Loss	dB	≤ 0.3		≤ 0.3
Return Loss	dB	UPC	APC	UPC
		≥ 50	≥ 60	≥ 50
Repeatability	dB	0.1		
Mating Cycling	Times	≥ 1000		
Operating Temperature	°C	-40~75		
Storage Temperature	°C	-40~85		
Optical Cable Diameter	mm	$\phi 0.9, \phi 2.0, \phi 3.0,$		



Ordering Information

Connector		Connector	Fiber Type	Cords	Cable Diameter	Cable Length (1m)	Cable Length (10cm)	Special			
YFP	-	4	5	-	6	7	8	9, 10	-	11	12
	1: SC/UPC	1: SC/UPC	1: Multi-Mode, OM1	1: Simplex	0: Standard	XX: 00~99 m	XX: 00~99 m	X: 0~9 *10cm	0: Standard		
	2: SC/APC	2: SC/APC	2: Multi-Mode, OM2	2: Duplex	2: 2mm						
	3: LC/UPC	3: LC/UPC	3: Multi-Mode, OM3		3: 3mm						
	4: LC/APC	4: LC/APC	4: Multi-Mode, OM4		9: 900um						
			5: Multi-Mode, OM5								
			A: Single-Mode, G652D								
			B: Single-Mode, G657A1								
			C: Single-Mode, G657A2								

Example: LC/PC-SC/APC, Single Mode G652D Fiber, Simplex Cable, Diameter: 3mm, Length: 2m

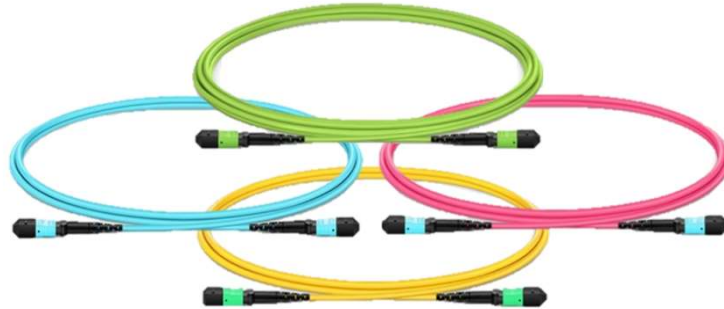
PN: YFP-32-A1302-00

Note:

Connector & Cable color definition

Fiber Cable	Connector	Cable
MMF OM2	Beige-UPC	Orange
MMF OM3	Beige-UPC	Aqua blue
MMF OM4	Violet-UPC	Violet
MMF OM5	Lime Green-UPC	Lime Green
SMF	Bule-UPC	Yellow
SMF	Green-APC	Yellow

MPO Fiber Patch Cord Series



Description

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Applications

- ❑ CATV
- ❑ Data processing networks
- ❑ Telecommunication networks
- ❑ WANs and LANs

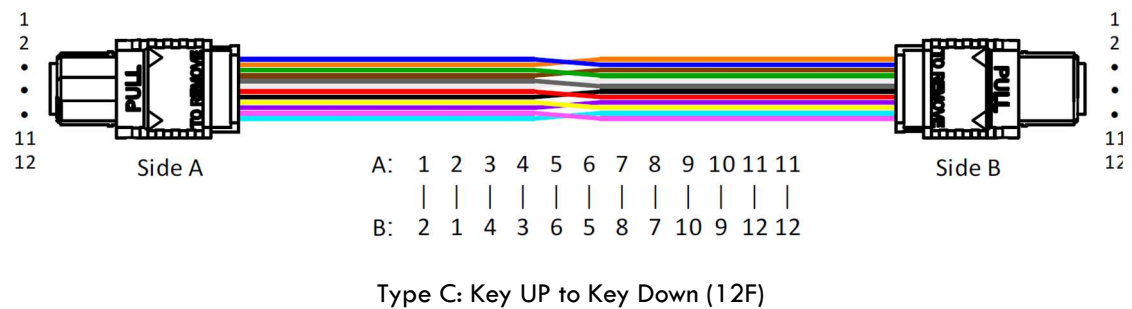
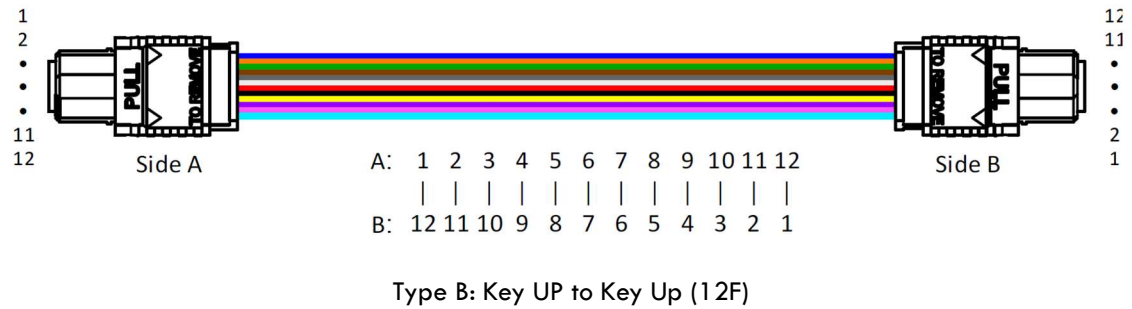
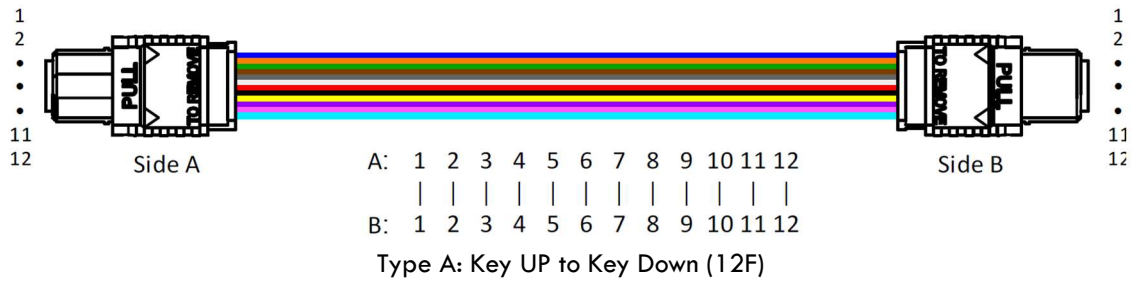
Features

- ❑ Connector options: MPO/UPC, MPO/APC types
- ❑ 8/12/24 cords available
- ❑ Choice of cable color and length
- ❑ LSZH cable jacket

Parameters

Item	Unit	Single Mode Fiber	Multi-mode Fiber
Insertion Loss	dB	≤ 0.35	≤ 0.35
Return Loss	dB	APC	UPC
		≥ 60	≥ 30
Repeatability	dB	$\leq 0.5@ 500$ times	
Operating Temperature	°C	-10~70	
Storage Temperature	°C	-40~85	
Optical Cable Diameter	mm	$\phi 3.0$	

Polarity



Ordering Information

	Connector	Connector	Fiber Type	Cords	Cable Diameter	Cable Length (1m)	Cable Length (10cm)	Special			
YFP	-	4	5	-	6	7	8	9, 10	-	11	12
	A: MPO/PC (male)	A: MPO/PC (male)	3: Multi-Mode, OM3 MPO Connector: Beige Cable: Aqua blue	8: 8 Cords	A: 3mm MPO Type A	XX: 00~99 m		X: 0~9 *10cm	0: Standard		
	B: MPO/APC (male)	B: MPO/APC (male)	4: Multi-Mode, OM4 MPO Connector-Violet Cable-Violet	A: 12 Cords	B: 3mm MPO Type B						
	E: MPO/PC (female)	E: MPO/PC (female)	5: Multi-Mode, OM5 MPO Connector: Lime Green Cable: Lime Green	B: 24 Cords	C: 3mm MPO Type C						
	F: MPO/APC (female)	F: MPO/APC (female)	A: Single-Mode, G652D								
			B: Single-Mode, G657A1								
			C: Single-Mode, G657A2								

Example: MPO/PC-MPO/PC, Multi-Mode OM4 Fiber, 8 cords Cable, Diameter: 3mm MPO Type B, Length: 2m

PN: YFP-AA-48B02-00

MPO to LC Breakout Cable Series**Description**

Fiber patch cord, often called fiber patch cable, fiber jumper, or fiber patch lead is a length of fiber cable that terminated with fiber optic connectors at each end. The connectors allow fiber optic patch cord to be rapidly connected to an optical switch or other telecommunications/computer device. Fiber jumper is a key player for indoor use, like in server rooms or in data centers.

Applications

- ❑ CATV
- ❑ Data processing networks
- ❑ Telecommunication networks
- ❑ WANs and LANs

Features

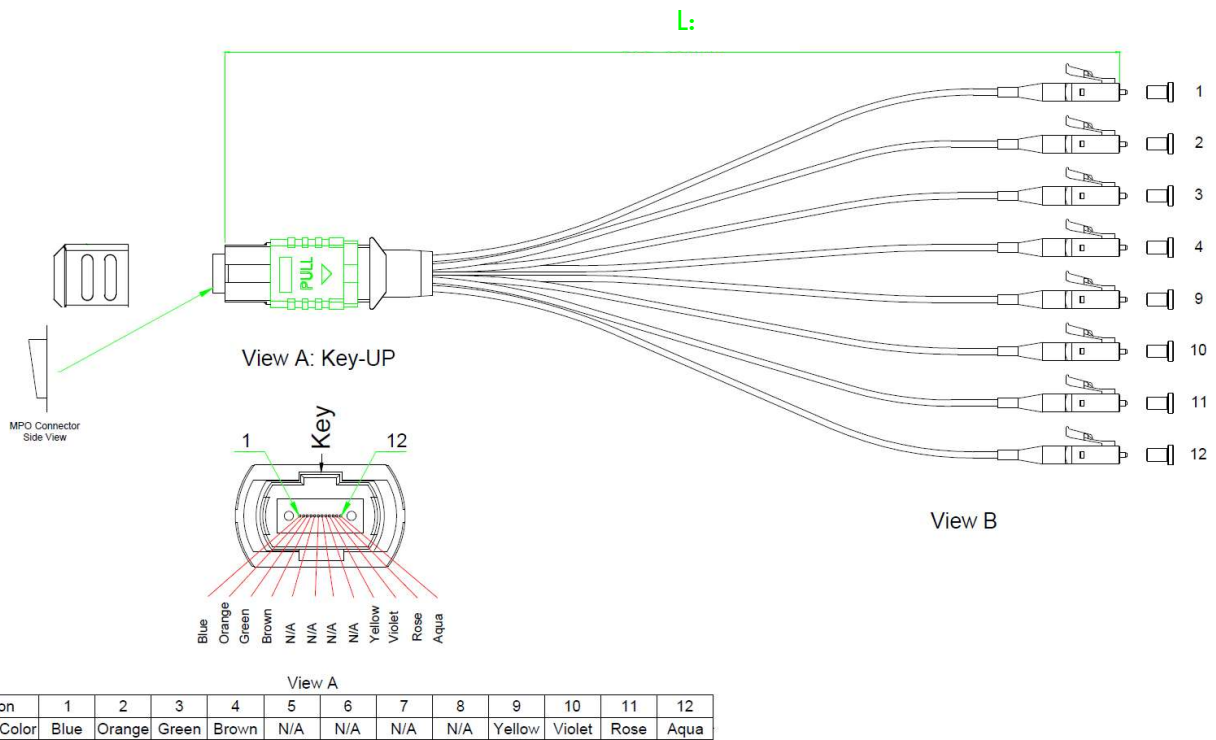
- ❑ Connector options: MPO/PC, MPO/APC to LC/UPC types
- ❑ 8/12/24 cords available
- ❑ Choice of cable color and length
- ❑ LSZH cable jacket

Parameters

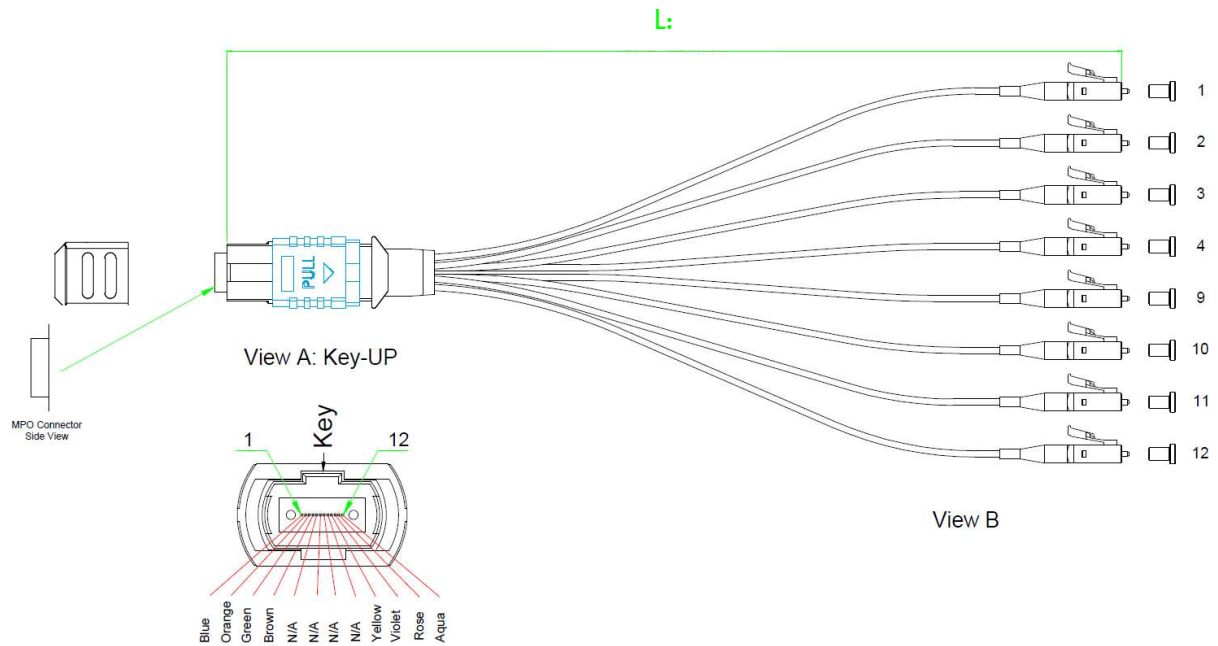
Item	Unit	Single Mode Fiber		Multi-mode Fiber
Connector		MPO		
Insertion Loss	dB	≤ 0.35		≤ 0.35
Return Loss	dB	APC		UPC
		≥ 60		≥ 30
Connector		LC		
Insertion Loss	dB	≤ 0.3		≤ 0.3
Return Loss	dB	UPC	APC	UPC
		≥ 50	≥ 60	≥ 50
Repeatability	dB	MPO: $\leq 0.5@ 500$ times; LC: $\leq 0.1@ 1000$ times		
Operating Temperature	$^{\circ}\text{C}$	$-10\sim 70$		
Storage Temperature	$^{\circ}\text{C}$	$-40\sim 85$		
Optical Cable Diameter	mm	$\phi 3.0$		

Polarity Illustration

A. Single Mode Fiber Type



B. Multi-mode Fiber Type



View A

Position	1	2	3	4	5	6	7	8	9	10	11	12
Fiber Color	Blue	Orange	Green	Brown	N/A	N/A	N/A	N/A	Yellow	Violet	Rose	Aqua

Ordering Information

Connector		Connector	Fiber Type	Cords	Cable Diameter	Cable Length (1m)	Cable Length (10cm)	Special			
YFP	-	4	5	-	6	7	8	9, 10	-	11	12
	A: MPO/PC (male)	3: LC/UPC	3: Multi-Mode, OM3 MPO Connector: Beige Cable: Aqua blue	8: 8 Cords	3: 3mm	XX: 00~99 m		X: 0~9 *10cm	0: Standard		
	B: MPO/APC (male)		4: Multi-Mode, OM4 MPO Connector-Violet Cable-Violet	A: 12 Cords							
	E: MPO/PC (female)		5: Multi-Mode, OM5 MPO Connector: Lime Green Cable: Lime Green	B: 24 Cords							
	F: MPO/APC (female)		A: Single-Mode, G652D								

Example: MPO/PC-LC/UPC, Multi-Mode OM4 Fiber, 8 cords Cable, Diameter: 3mm, Length: 2m

PN: YFP-A3-48302-00