

# Optical Connectors

Patch Cord	Single-fiber Optical Connector
	Simplex Patch Cord
	Duplex Patch Cord
MPO Cabling System	MPO Cabling System
	Optical Patch Panel and Connector Module
	MPO Connector
	Trunk Cable
	Patch Cord with Fiber-optic Connector for MPO Cabling System
Field Installable Connector	FAST™ Connector Series
	FAST™ Plus Connector
	FuseConnect™ Series
	FuseConnect™ for MPO
Mechanical Splices	Mechanical Splice
Cleaners	One-Click™ Cleaner MPO ESD
	One-Click™ Cleaner PRO
	One-Click™ Cleaner



### Single-fiber Optical Connector

Fujikura Simplex/Duplex Patch Cords support following optical connectors.

#### SC Connector



SC Connector

SC2 Connector (Note)  
(Note) Special tools are required for attaching and detaching.

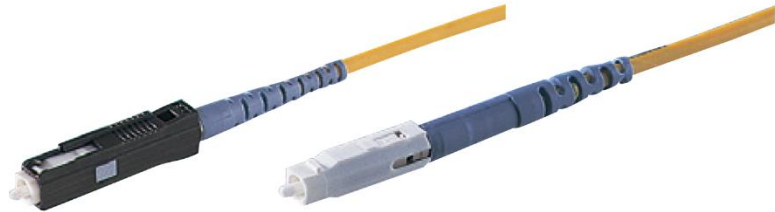
#### LC Connector



Cord Type

Fiber Type

#### MU Connector



MU Connector

MUJ Connector (Note)  
(Note) Special tools are required for attaching and detaching.

#### FC Connector



Cord Type

Fiber Type

#### Duplex Type Connector



SCF Connector (SCF)

LC Connector (DXLC)

MU Connector (DXMU)



Contact us

**Single-fiber Optical Connector Lineup for Simplex/Duplex Patch Cords**

Optical Connector Type		Single Mode Fiber (SMF) / Multimode Fiber (MMF)							
		Polishing Method (MMF can only be PC polished.)				Cord Size [mm]			
		PC	SPC	UPC	APC	Fiber Ø 0.9	Simplex Cord Ø 2	Ø 2.8	Zipcord Ø 2 x 2
SC	SC	✓	✓	✓	✓	✓	✓	✓	✓
	SC2	✓	✓	✓		✓	✓	✓	✓
	SCF	✓	✓	✓		✓	✓	✓	✓
LC	LC	✓	✓	✓		✓	✓		✓
	DXLC	✓	✓	✓		✓	✓		✓
MU	MU	✓	✓	✓		✓	✓		✓
	MUJ	✓	✓	✓		✓	✓		✓
	DXMU	✓	✓	✓		✓	✓		✓
FC	FC	✓	✓	✓	✓	✓	✓	✓	✓

**Optical Specifications of Single-fiber Optical Connector**

Item		Single Mode	Multimode
Fiber Type		SM10/125 (R15, R30)	GI50/125 GI62.5/125
Applicable Optical Connectors		SC, LC, MU, FC	
Insertion Loss (against Master)	PC Polishing	0.5 dB or less	0.3 dB or less
	SPC Polishing		Not Supported
	UPC Polishing		
	APC Polishing (*1)		
Return Loss	PC Polishing	- (*2)	- (*2)
	SPC Polishing	40 dB or more	Not Supported
	UPC Polishing	50 dB or more	
	APC Polishing (*1)	60 dB or more	

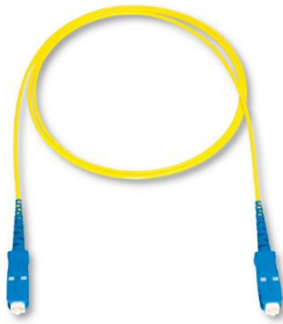
(\*1): SC2, LC and MU connectors do not support APC polishing.

(\*2): If specification of the return loss is required, please contact Fujikura Sales.

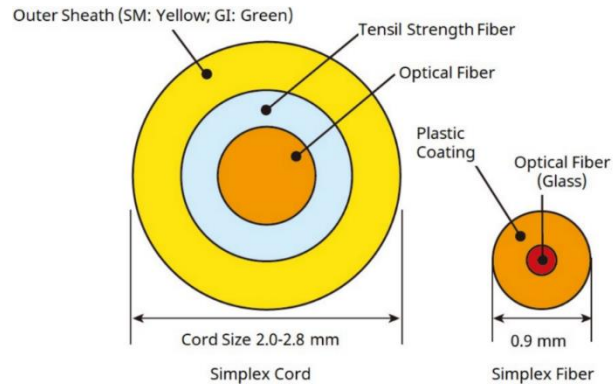


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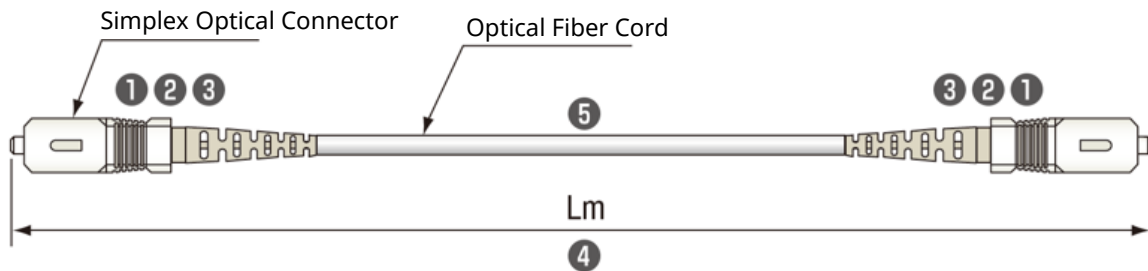
### Simplex Patch Cord



Simplex Patch Cord



### Both End with Connectors



Model Number: **FSC-2PS-SPC-3M-SMC10/125-S**

① ② ③ ④ ⑤

①	②	③	④	⑤	
Connector Type (*1)	Connector at Fiber End	Polishing Type (*2)	Product Length (*3)	Fiber Type (*4)	
<b>FSC:</b> SC <b>FSC2:</b> SC2 <b>FLC:</b> LC <b>FMU:</b> MU <b>FMUJ:</b> MUJ <b>FFC:</b> FC	<b>Single Mode Fiber</b> <b>1PS:</b> One End Only <b>2PS:</b> Both Ends  <b>Multimode Fiber</b> <b>1P:</b> One End Only <b>2P:</b> Both Ends	<b>PC:</b> PC Polishing <b>SPC:</b> SPC Polishing <b>UPC:</b> UPC Polishing <b>APC:</b> APC Polishing (SC, FC only)	Number in Metric (0.3 m or more)	<b>Simplex Cord</b> <b>GC50/125-S:</b> MM50 (Green), OM2 <b>GC62.5/125-S:</b> MM62.5 (Green), OM1 <b>SMC10/125-S:</b> SM (Yellow), R30 <b>SR15E-SMC10/125-S:</b> SM (Yellow), R15 <b>GC50/125-S(10G):</b> MM10G (Green), OM3	<b>Simplex Fiber</b> <b>G50/125:</b> MM50 (White), OM2 <b>SM10/125:</b> SM (White), R30 <b>SR15E-SM10/125:</b> SM (White), R15

(\*1): When different connectors are attached at both ends, indicate FFC/FSC.

(\*2): When polishing at both ends is different, indicate PC/SPC. Multimode fiber is PC polishing only.

(\*3): Product length tolerances are shown below:

Product Length	Tolerance
$L \leq 1 \text{ m}$	+10 cm, -0
$1 \text{ m} < L \leq 10 \text{ m}$	+10%, -0
$10 \text{ m} < L \leq 50 \text{ m}$	+1 m, -0
$50 \text{ m} < L$	+2%, -0

(\*4): For  $\varnothing 0.9 \text{ mm}$  fiber and  $\varnothing 2 \text{ mm}$  cord, color in ( ) indicates coating color.



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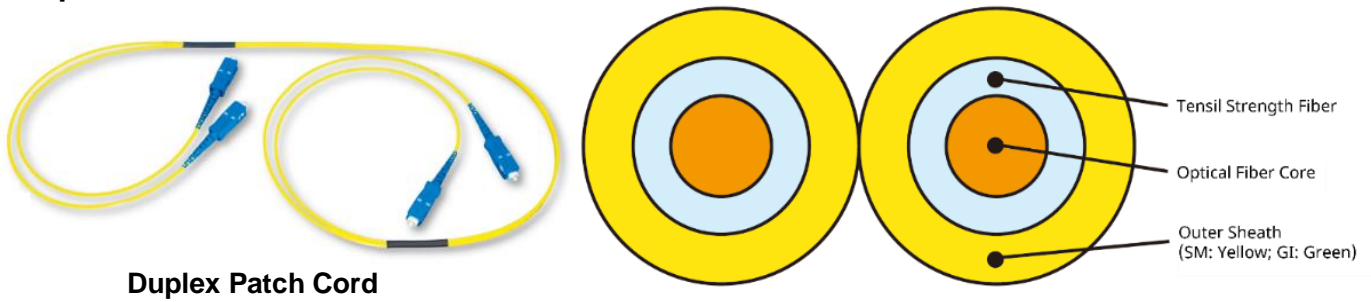
Item	Model Number Example *	Connector 1	Connector 2	Fiber	Cord/ Fiber Color	Cord/ Fiber Diameter	Standard Product Length (m)	Overview
1	FSC-2PS-SPC-LM-SMC10/125-S	SC/SPC	SC/SPC	SM (R30)	Yellow	Ø 2 mm	L = 1, 2, 3, 5	SM (R30) Simplex Cord with SC Connectors at Both Ends
2	FSC-2PS-SPC-LM-SR15E-SMC10/125-S	SC/SPC	SC/SPC	SM (R15)	Yellow	Ø 2 mm	L = 1, 2, 3, 5	SM (R15) Simplex Cord with SC connectors at Both Ends
3	FLC-2PS-SPC-LM-SR15E-SMC10/125-S	LC/SPC	LC/SPC	SM (R15)	Yellow	Ø 2 mm	L = 1, 2, 3, 5	SM (R15) Simplex Cord with LC connectors at Both Ends
4	FSC-2P-PC-LM-GC50/125-S	SC/PC	SC/PC	MM50	Green	Ø 2 mm	L = 1, 2, 3, 5	GI 50/125 Simplex Cord with SC connectors at Both Ends
5	FSC-2P-PC-LM-GC62.5/125-S	SC/PC	SC/PC	MM62.5	Green	Ø 2 mm	-	GI 62.5/125 Simplex Cord with SC connectors at Both Ends
6	FSC/FLC-2P-PC-LM-GC50/125-S	SC/PC	LC/PC	MM50	Green	Ø 2 mm	-	GI 50/125 Simplex Cord with LC Connector at One End and SC Connector at Other End
7	FSC-1PS-SPC-LM-SR15E-SMC10/125-S	SC/SPC	LC/PC	SM (R15)	Yellow	Ø 2 mm	L = 1, 2, 3, 5	SM (R15) Simplex Cord with SC Connector at One End Only
8	FSC-2PS-SPC-LM-SM10/125	SC/SPC	SC/SPC	SM (R30)	White	Ø 0.9 mm	-	SM Simplex Fiber with SC Connectors at Both Ends
9	FSC-2P-PC-LM-G50/125	SC/PC	SC/PC	MM50	White	Ø 0.9 mm	-	GI 50/125 Simplex Fiber with SC Connectors at Both Ends

\* Specify the total length (m) for L

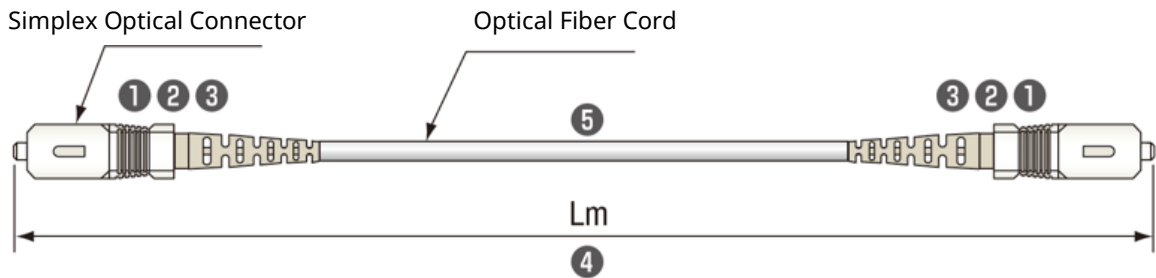


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Duplex Patch Cord



Both End with Connectors



Model Number: **FSC-2PS-SPC-3M-SMC10/125-S**

①    ②    ③    ④    ⑤

①		②	③	④	⑤
Connector Type (*1)		Connector at Fiber End	Polishing Type (*2)	Product Length (*3)	Fiber Type (*4)
<b>Simplex Connector</b> FSC: SC FSC2: SC2 FMU: MU FMUJ: MUJ FLC: LC FFC: FC	<b>Duplex Connector</b> FSCF: SCF DXMU: DXMU DXLC: DXLC	<b>Single Mode Fiber</b> 1PS: One End Only 2PS: Both Ends  <b>Multimode Fiber</b> 1P: One End Only 2P: Both Ends	<b>PC:</b> PC Polishing <b>SPC:</b> SPC Polishing <b>UPC:</b> UPC Polishing <b>APC:</b> APC Polishing (SC, FC only)	Number in Metric (1.0 m or more)	<b>Simplex Cord</b> GC50/125-2SR: MM50 (Green), OM2 GC62.5/125-2SR: MM62.5 (Green), OM1 SMC10/125-2SR: SM (Yellow), R30 SR15E-SMC10/125-2SR: SM (Yellow), R15 GC50/125-2SR (10G): MM10G (Green), OM3

(\*1): When different connectors are attached to both ends, use FFC/FSC notation.

(\*2): When polishing with different ends, indicate PC/SPC notation. Multimode fiber is PC polishing only.

(\*3): Product length tolerances are shown below:

Product Length	Tolerance
1 m < L ≤ 10 m	+10%, -0
10 m < L ≤ 50 m	+1 m, -0
50 m < L	+2%, -0

(\*4): Color in ( ) indicates coating color.

(\*5): When duplex connectors (SCF, DXLC, DXMU) are installed on both ends, polarity specification (1X, -ST) is required. Standard Branch Length is 0.5 m. (Please contact us for short items.)



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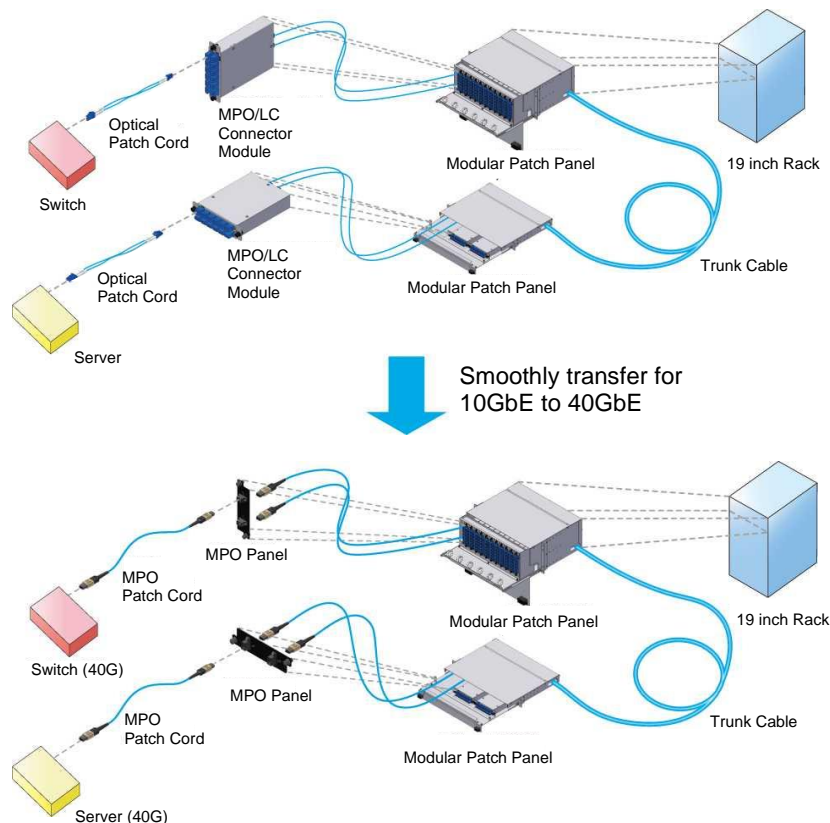
Item	Model Number Examples	Connector 1	Connector 2	Fiber	Cord Color	Cord Diameter	Standard Total Length (m)	Overview
1	FSC-2PS-SPC-LM-SMC10/125-2SR	SC/SPC	SC/SPC	SM (R30)	Yellow	∅ 2 mm x 2	L = 1, 2	SM (R30) Zipcord with SC Connectors at Both Ends
2	FLC-2PS-SPC-LM-SMC10/125-2SR	LC/SPC	LC/SPC	SM (R30)	Yellow	∅ 2 mm x 2	L = 2, 3, 5	SM (R30) Zipcord with LC Connectors at Both Ends
3	FSC/FLC-2PS-SPC-LM-SMC10/125-2SR	SC/SPC	LC/SPC	SM (R30)	Yellow	∅ 2 mm x 2	L = 2, 3, 5	SM (R30) Zipcord with SC Connector at One End and LC Connector at Other End
4	FSC-2PS-SPC-LM-SR15E-SMC10/125-2SR	SC/SPC	SC/SPC	SM (R15)	Yellow	∅ 2 mm x 2	L = 1, 2, 3, 5	SM (R15) Zipcord with SC Connectors at Both Ends
5	FLC-2PS-SPC-LM-SR15E-SMC10/125-2SR	LC/SPC	LC/SPC	SM (R15)	Yellow	∅ 2 mm x 2	L = 1, 2, 3, 5	SM (R15) Zipcord with LC Connectors at Both Ends
6	FSC/FLC-2PS-SPC-LM-SR15E-SMC10/125-2SR	SC/SPC	LC/SPC	SM (R15)	Yellow	∅ 2 mm x 2	L = 1, 2, 3, 5	SM (R15) Zipcord with SC Connector at One End and LC Connector at Other End
7	FSC-2P-PC-LM-GC50/125-2SR	SC/PC	SC/PC	MM50	Green	∅ 2 mm x 2	L = 1, 2, 3, 5	GI 50/125 Zipcord with SC Connectors at Both Ends
8	FLC-2P-PC-LM-GC50/125-2SR	LC/PC	LC/PC	MM50	Green	∅ 2 mm x 2	L = 1, 2, 3, 5	GI 50/125 Zipcord with LC Connectors at Both Ends
9	FSC/FLC-2P-PC-LM-GC50/125-2SR	SC/PC	LC/PC	MM50	Green	∅ 2 mm x 2	L = 1, 2, 3, 5	GI 50/125 Zipcord with SC Connector at One End and LC Connector at Other End
10	FSCF/DXLC-2PS-SPC-LM-SMC10/125-2SR-X	SCF/SPC	DXLC/SPC	SM (R30)	Yellow	∅ 2 mm x 2	—	SM (R30) Zipcord with Duplex SC Connector at One End and Duplex LC Connector at Other End (Cross)
11	FSCF-2PS-PC-LM-GC50/125-2SR-ST	SCF/PC	SCF/PC	MM50	Green	∅ 2 mm x 2	—	GI 50/125 Zipcord with Duplex SC Connectors at Both Ends (Straight)



## Fiber-optic Cabling System Using 12-Fiber MPO (12MPO) Connectors for Data Centers

### Features

- High-Speed, High-Capacity Transmission**  
 Our high-performance optical fiber supports current 10GbE networks and is ready for future upgrades to 40GbE and 100GbE, ensuring long-term scalability and superior data transmission capabilities.
- Rapid Installation**  
 The Fujikura fiber-optic cabling system is designed for efficiency, featuring pre-terminated fiber-optic connectors that facilitate a plug-and-play setup. This design dramatically reduces installation time, making it ideal for data centers needing swift deployment.
- Unmatched Reliability**  
 Every Fujikura product is processed and assembled in a meticulously controlled factory environment. This ensures that our fiber-optic cabling systems offer exceptional reliability, eliminating the need for direct handling of optical fibers within your data center.
- Superior Performance**  
 Utilizing wideband multimode optical fiber, our system extends transmission distances significantly. For example, 10GBASE-SR transmissions can reach up to 300 meters with OM3 and 400 meters with OM4, providing flexibility and enhanced performance for various applications.
- High-Density Solutions**  
 Our trunk cables with 12MPO connectors minimize cabling volume, while our modular patch panels support high-density mounting. This design optimizes space and enhances the efficiency of your data center infrastructure.
- Quick Recovery**  
 In the event of cable damage, the FuseConnect™ splice-on connector enables swift and effective recovery. This feature ensures minimal downtime and maintains the operational integrity of your fiber-optic cabling system.



Contact us

## Optical Patch Panel and Connector Module

### Versatile Deployment and Easy Integration

- Comprehensive Module Deployment: Suitable for various areas, including main distribution for networking.
- Diverse Range of Options: Choose from modular types to adapter panel types for optimal customization.
- Efficient and Reliable Systems: Plug-and-play connections ensure quick, easy installation and reliable performance.
- Seamless Integration: Compatible with various trunk cables and patch cords for flexible and scalable network solutions. Feel free to combine them with various trunk cables and patch cords.

## Patch Panel Chassis & Modules



FBC514P-1U



FBC514M-24LC-SM



FBC514MA-2MPO

## Features

### Versatile and High-Density Fiber Optic Solutions

- High-Density Mounting: Our modules are designed for high-density mounting in the chassis, ensuring efficient use of space and easy insertion and removal of connectors.
- Flexible Connectivity: The trunk cable features a multi-fiber MPO connector, with options to choose LC or SC connectors on the patch cord side for versatile connectivity.
- Dual Cabling Support: Each module supports both type A and type B cabling, providing flexibility and compatibility with various cabling standards.

## Patch Panel Chassis

FBC514P-[ ]	1U	2U	4U
Installation Type	19 inch Rack (EIA Standard)		
Configuration	Connector + (Module) + Connector		
Cable Entry	Rear Side (Right and Left)		
Number of Cables	Max. 6	Max. 6	Max. 12
Number of Modules	Max. 3	Max. 6	Max. 12
Color	Black		
Dimensions (mm)	W 482.6 x H 43.7 x D 360	W 482.6 x H 88.1 x D 360	W 482.6 x H 177 x D 400



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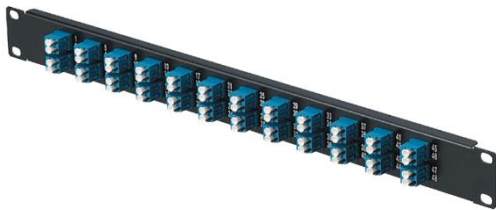
**Module**

FBC514M-[ ]	24LC-SM	24LC-MM	24LC-LM
Connector Type	LC Duplex: 12 pcs, MPO (Male): 2 pcs		
Insertion Loss (dB)	Max. 1.3	Max. 0.9	Max. 0.5

FBC514M-[ ]	12SC-SM	12SC-MM	12SC-LM
Connector Type	SC Duplex: 6 pcs, MPO (Male): 1 pc		
Insertion Loss (dB)	Max. 1.3	Max. 0.9	Max. 0.5

FBC514M-[ ]	2MPO
Connector Type	MPO: 2 pcs

**Adapter Panel & Cord Storage Tray**



FBC514A-48LC-BL



FBC514T-02

**Features**

- Utilizes a combination of adapter panel and cord storage tray.
- Supports LC, SC, and MPO connectors.

**Adapter Panel**

FBC514M-[ ]	48LC-aa	24SC-aa	12MPO
Connector Type	19 inch Rack (EIA Standard)		
Insertion Loss (dB)	LC Duplex: 24 pcs	SC Duplex: 12 pcs	MPO: 12 pcs
Color	Black		
Dimensions (mm)	W 482.6 x H 43.7 x D 10 (not including adapter)		

**Cord Storage Tray**

FBC514T-[ ]	02
Installation Type	19 inch Rack (EIA Standard)
Cable Entry	Front, Rear, Right and Left: 2 each (8 in total)
Color	Black
Dimensions (mm)	W 482.6 x H 43.7 x D 360



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## MPO Connector



MPO Connector



24-Fiber MPO Connector

### Features

- Advanced multi-fiber connector solutions
- MT ferrule multi-fiber connector: Utilizes an MT ferrule, with a 24-fiber type available in our lineup.
- Low-loss performance: Designed to deliver low loss even as a multi-fiber connector, ensuring reliable and efficient data transmission.

### 12-Fiber MPO (12MPO) Connector

		Single Mode Fiber (OS2)	Multimode Fiber (OM3, OM4)
Fiber Count		12	12
Insertion Loss (against Master)	Standard Grade	≤ 1.0 dB	≤ 0.6 dB
	Low-Loss Grade	≤ 0.35 dB	≤ 0.2 dB
Return Loss		≥ 55 dB	-
Polishing Type		APC	PC
Conforming Standard		JIS C5982 (F13) IEC-61754-7	

### 24-Fiber MPO (24MPO) Connector

		Single Mode Fiber (OS2)	Multimode Fiber (OM3, OM4)
Fiber Count		24	24
Insertion Loss (against Master)	Standard Grade	≤ 1.0 dB	≤ 0.75 dB
	Low-Loss Grade	≤ 0.35 dB	≤ 0.35 dB
Return Loss		≥ 55 dB	-
Polishing Type		APC	PC



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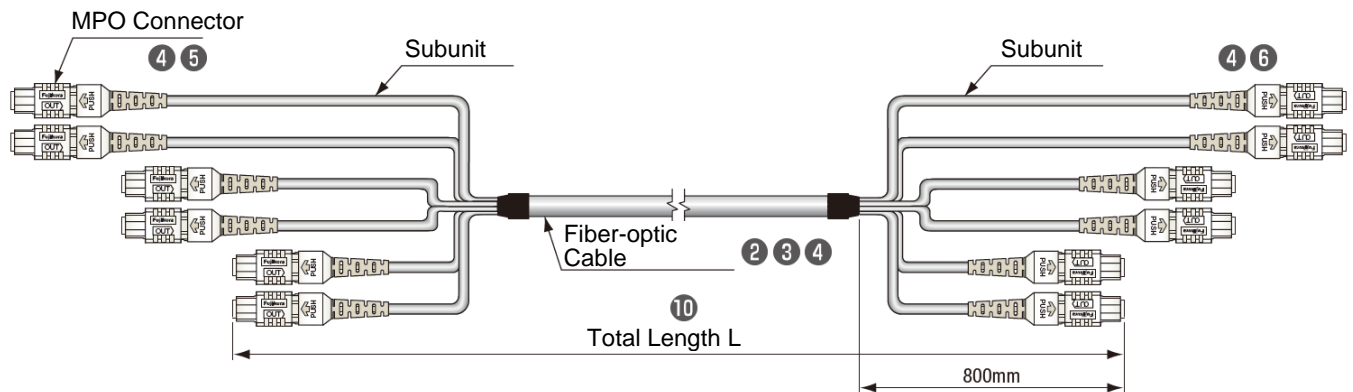
### Trunk Cable



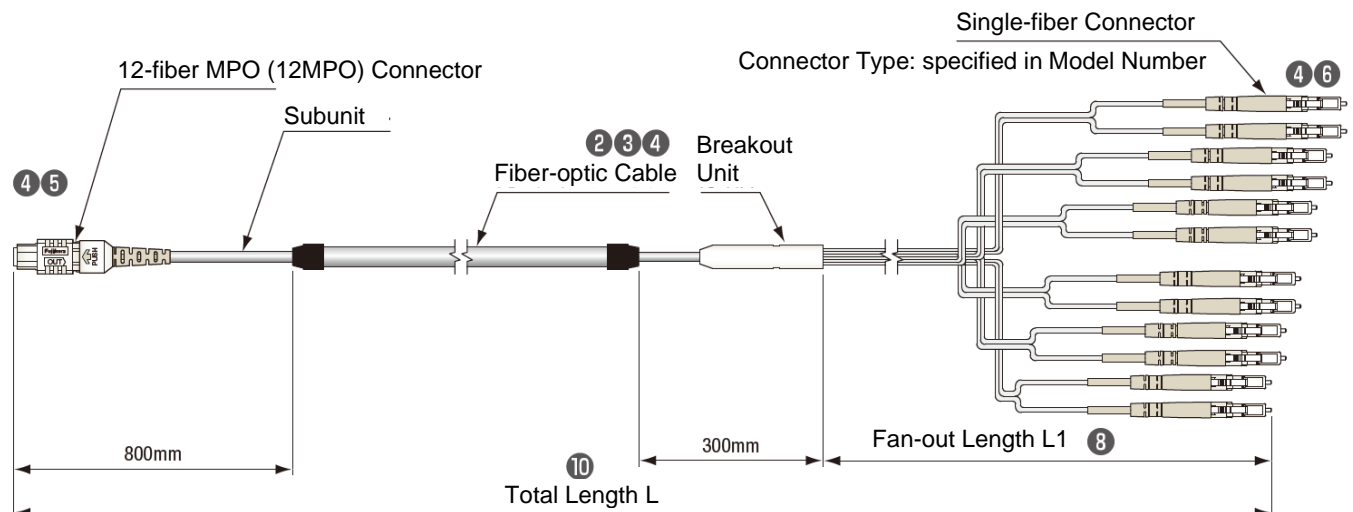
#### Features

- Efficient trunk cable solutions
- Data center connectivity: Trunk cables are ideal for connecting racks and rooms within data centers.
- Pre-installed connectors: Delivered with MPO and simplex connectors installed for ready-to-use convenience.
- Flexible packaging options: Available with tow-ends and reel packaging to suit various installation environments.

#### MPO – MPO

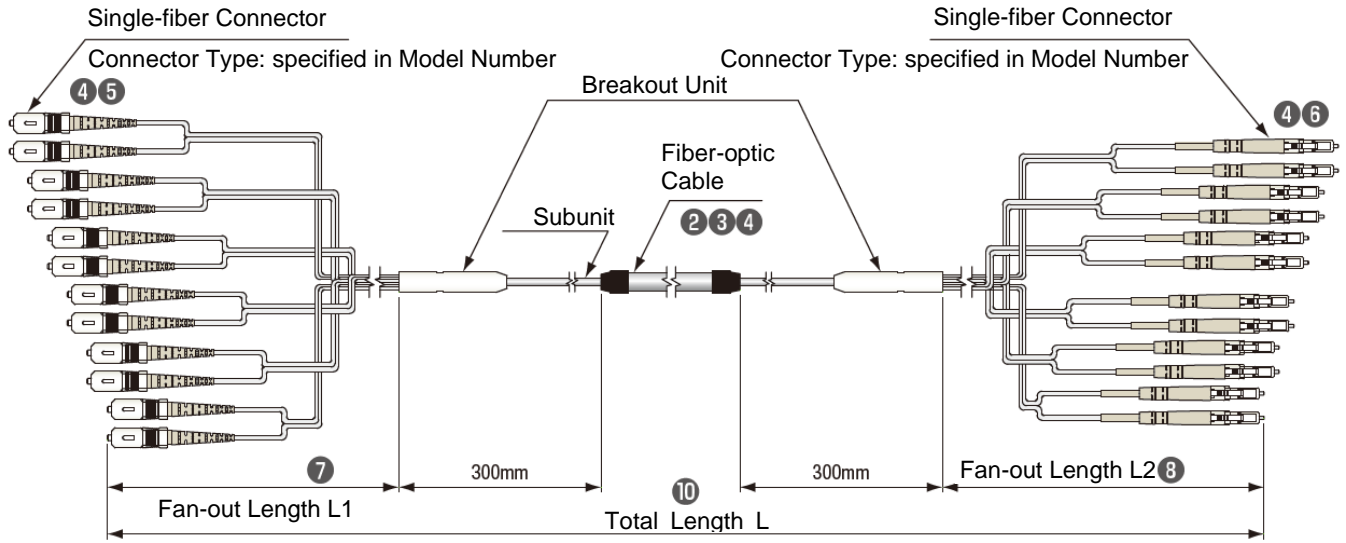


#### MPO – Single-fiber Connector (Fan-out)



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Single-fiber Connector (Fan-out) – Single-fiber Connector (Fan-out)



Model Number : FJ-■-■■■ ■■■■-■■■ M ■■■■

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1	2	3	4
Polarity (TIA-568-C.3)	Cable Type	Fiber Type & Jacket Color	Fiber Count
<b>A:</b> Type A	<b>K:</b> Trunk Cable  • Flame-retardant Rating: Plenum	<b>SY:</b> SM, OS2, Yellow <b>LA:</b> MM 50 um, OM3-BIF, Aqua <b>CA:</b> MM 50 um, OM4-BIF, Aqua  • BIF: Bend-insensitive Fiber	<b>2:</b> 2 fibers <b>4:</b> 4 fibers <b>6:</b> 6 fibers <b>8:</b> 8 fibers <b>C:</b> 12 fibers <b>D:</b> 24 fibers <b>E:</b> 36 fibers <b>F:</b> 48 fibers  • Indicates number of fibers for connector termination



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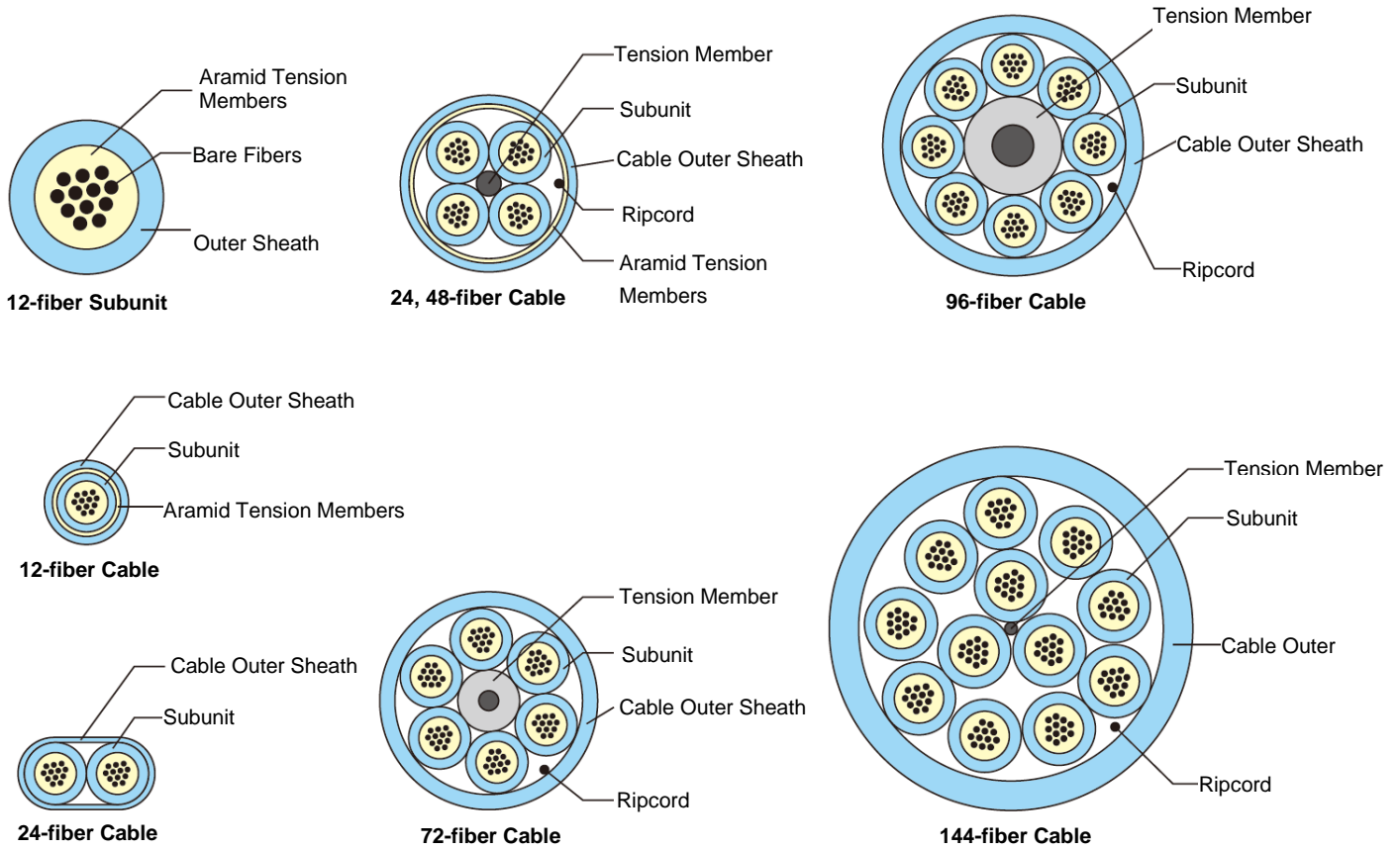
56	78	9
Connector Type	Fan-out Length L1, L2	Pulling Eye
<p><b>MPF:</b> 12MPO (Female)  <b>MPM:</b> 12MPO (Male)  <b>LPF:</b> Low-loss 12MPO (Female)  <b>LPM:</b> Low-loss 12MPO (Male)  <b>SSC:</b> Simplex SC (PC)  <b>SSA:</b> Simplex SC (APC)  <b>SLC:</b> Simplex LC (PC)  <b>UCO:</b> No Connector</p> <ul style="list-style-type: none"> <li>• PC: UPC for SM</li> <li>• Please contact us for further assistance to ensure support for the duplex connector. It is essential to verify the wiring configuration.</li> </ul>	<p><b>A:</b> Fixed Length for MPO  <b>B:</b> 500 mm  <b>C:</b> 1000 mm  <b>D:</b> 1500 mm  <b>E:</b> 2000 mm</p>	<p><b>A:</b> No Pulling Eye  <b>B:</b> Pulling Eye on Side B (end) (*1)  <b>C:</b> Pulling Eyes on Both Ends</p> <p>(*1) Assembly Priority in case of B  1<sup>st</sup> Priority: No Connector Side  2<sup>nd</sup> Priority: MPO Side  3<sup>rd</sup> Priority: Single-fiber Connector Side (*2)</p> <p>(*2) Maximum Fiber Count for Single-fiber Connectors:  LC: 48 fibers or less  SC: 24 fibers or less</p>

10	11
Total Length L (3 digits)	Packaging Type (Bundled/Reeled)
<p><b>001:</b> 1 m  <b>010:</b> 10 m  <b>100:</b> 100 m</p> <ul style="list-style-type: none"> <li>• Tolerance  L ≤ 10 m : +10%, -0  10 m &lt; L ≤ 50 m: +1 m, -0  50 m &lt; L: +2%, -0</li> <li>• Minimum Length  MPO – MPO: 3 m or more  MPO – Single-fiber Connector: 7 m or more  Single-fiber Connector – Single-fiber connector: 10 m or more</li> </ul>	<p><b>C:</b> Bundled  <b>R:</b> Reeled</p>



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### Structure of Trunk Cable



Type	Trunk Cable						
Fiber Count	12	24	24	48	72	96	144
Outer Diameter (mm)	4.5	4.5 x 7.4	9.7		11.1	13.3	14.9
Weight (kg/km)	22	33	80		125	175	194
Sheath Color	OS2: Yellow OM3/OM4: Aqua						
Flame-retardant Rating	Plenum (OFNP UL910)						



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## Reel

### Compact and Eco-Friendly Reel Packaging

**Durable Construction:** The reel features a wooden board and paper tube body, assembled with bolts and nuts for easy disassembly and disposal on-site.

**Compact Design:** Available in flange diameters of 44 cm and 60 cm, making it easy to transport into server rooms.

**Eco-Friendly Materials:** The materials are resistant to wood waste, ensuring suitability for use within the server room environment.



## Pulling Eye

### Adaptable Pulling Eye Design

**Variable Outer Diameter:** The outer diameter of the pulling eye ranges from 30 to 50 mm, tailored to the fiber count and the number of connectors.

**Customizable Length:** The length of the pulling eye is adjustable based on the fan-out length and the quantity of connectors, ensuring a precise fit for your specific installation needs.

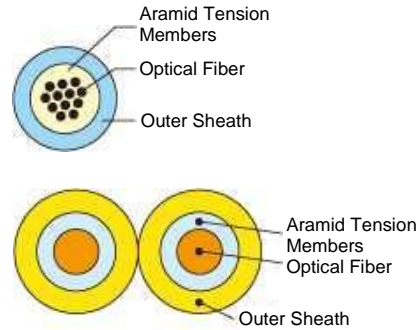


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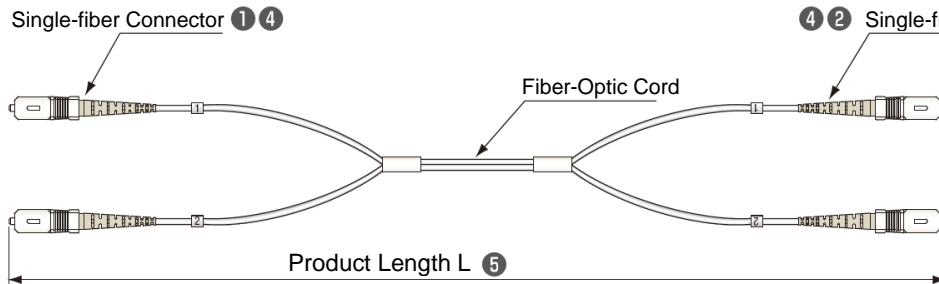
## Patch Cord with Fiber-optic Connector for MPO Cabling System

### Features

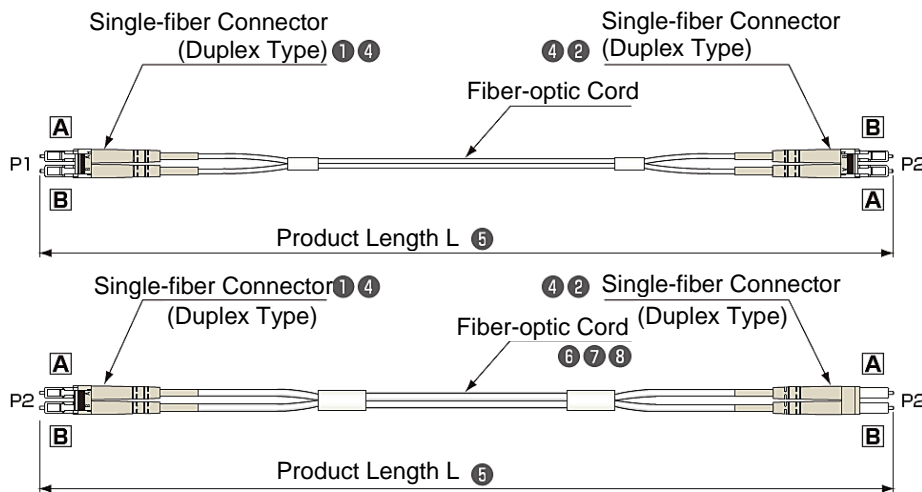
- Optimized patch cord solutions
- Ideal for short-distance connections: Specifically designed for short-distance connections or intra-rack use within data centers.
- Pre-terminated connectors: Supplied with MPO and single-fiber connectors, enabling quick and efficient installations.



### Simplex Connector



### Duplex Connector

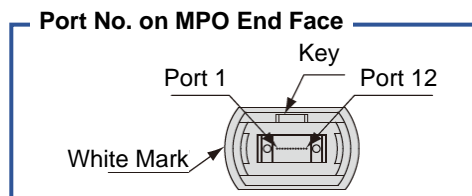
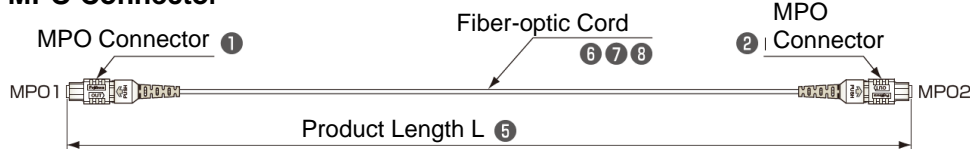


#### Polarity of Duplex Connectors

Duplex connectors on both ends exhibit polarity. Please specify one of the following two polarities (X: Cross Connection, ST: Straight Connection) and include it in the model number when placing an order.

Symbol	Polarity	
	From: P1	To: P2
X	A → B	B → A
	B → A	A → B
ST	A → A	B → B
	B → B	A → A

### MPO Connector



#### Polarity of MPO Connectors

MPO connectors on both ends exhibit polarity. Please specify one of the following two polarities (X: Cross Connection, ST: Straight Connection) and include it in the model number when placing an order.

ST: Straight Connection		X: Cross Connection	
MPO1 Port No.	MPO2 Port No.	MPO1 Port No.	MPO2 Port No.
1	1	1	12
2	2	2	11
3	3	3	10
4	4	4	9
5	5	5	8
6	6	6	7
7	7	7	6
8	8	8	5
9	9	9	4
10	10	10	3
11	11	11	2
12	12	12	1



Contact us

Model Number : **■ / ■ - 2P ■ - ■ - ■ M - ( ■ - ) ■ - ■**  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①②	③	④
Connector Type	Fiber Type	Polishing Type
<b>FSC:</b> Simplex SC <b>FLC:</b> Simplex LC <b>DXSC:</b> Duplex SC <b>DXLC:</b> Duplex LC <b>12MPOF:</b> 12MPO (Female) <b>12MPOM:</b> 12MPO (Male) <b>P12MPOF:</b> Low-loss 12MPO (Female) <b>P12MPOM:</b> Low-loss 12MPO (Male) <ul style="list-style-type: none"> <li>• 12MPO: 12-fiber MPO</li> <li>• ② could be omitted when both ends are the same connector.</li> </ul>	<b>No entry:</b> MM <b>S:</b> SM	<b>PC</b> <b>SPC</b> <b>UPC</b> <b>APC</b> (SC only) <ul style="list-style-type: none"> <li>• Specify polishing such as PC/SPC for different polished ends. Omit for MPO.</li> <li>• SM is APC polishing and MM is PC polishing.</li> </ul>

⑤	⑥
Product Length L	Flame-retardant Option (Optional)
Metric (1.5 m or greater) <ul style="list-style-type: none"> <li>• Tolerance                L ≤ 10 m: +10%, -0                10 m &lt; L ≤ 50 m: +1 m, -0                50 m &lt; L: +2%, -0</li> </ul>	<b>No Symbol:</b> PVC, flame-retardant not specified <b>RS:</b> Riser Grade <b>PL:</b> Plenum Grade <ul style="list-style-type: none"> <li>• 3 mm dia. 12-fiber round cord is Plenum grade.</li> </ul>

⑦	⑧
Fiber Type & Cord Shape	Polarity
<b>SMC-S:</b> Single-fiber Cord, SM, 2 mm <b>SR15EC-S:</b> Single-fiber Cord, SM SR15E, 2 mm <b>SMC-2 SR:</b> Zipcord, SM, 2 mm <b>SR15EC-2SR:</b> Zipcord, SM SR15E, 2 mm <b>OM3C-2SR:</b> Zipcord, MM 50 um, OM3, 2 mm <b>OM4C-2SR:</b> Zipcord, MM 50 um, OM4, 2 mm <b>SMCx12C:</b> 12-fiber Round Cord, SM, 3 mm <b>OM3Cx12C:</b> 12-fiber Round Cord, MM 50 um, OM3, 3 mm <b>OM4Cx12C:</b> 12-fiber Round Cord, MM 50 um, OM4, 3 mm	<b>X:</b> Cross Connection <b>ST:</b> Straight Connection <ul style="list-style-type: none"> <li>• Specify only for duplex and MPO connectors at both ends.</li> </ul>

### Ordering Model Number Example

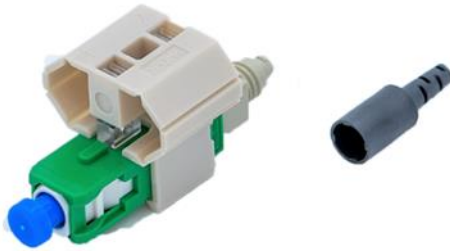
**DXLC-2P-PC-3M-RS-OM3C-2SR-X**  
 OM3 Duplex LC Connector on Both Ends, Zipcord, Riser Grade, Aqua, DXLC-DXLC, 3m, Cross Connection

**12MPOF-2PS-SM-PL-SMCx12C-ST**  
 SM MPO Connector at both ends, 12-fiber Cord, Plenum Grade, Yellow, MPO (Female) -MPO (Female), 2 m, Straight Connection



Contact us

## FAST™ Connector Series

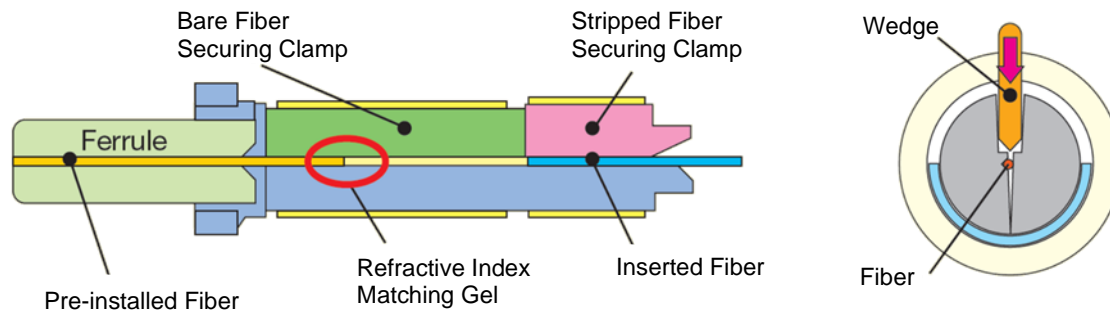


FAST connectors are factory pre-polished, field-installable connectors that eliminate the need for hand polishing in the field. Proven mechanical splice technology ensures precise fiber alignment, a factory pre-cleaved fiber stub, and a proprietary index-matching gel, all combined to offer an immediate low-loss termination for either single-mode or multimode optical fibers.

### Features

- Easy field installation through a simplified process, without the need for electrical power, epoxy, or field polishing.
- FAST connectors are designed to accommodate 0.25 mm / 0.9 mm coated fiber, 2 mm / 3 mm cords, and rectangular-shaped outdoor/indoor cables.
- FAST connectors demonstrate high performance when combining SC/LC/ST connectors and mechanical splices.

### Structure of Mechanical Splice

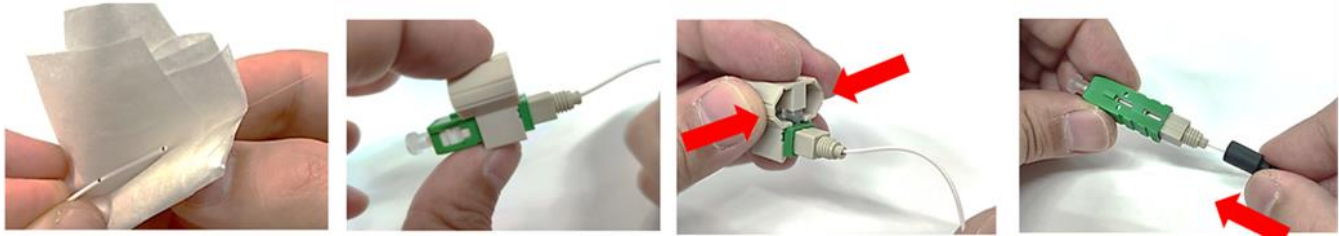


Polished optical fiber is pre-affixed at the tip of the connector and stripped fiber is cleaved, aligned and meets the pre-installed fiber, where connection is done via mechanical splice method.



Contact us

### Assembly Flow of FAST Connector (0.25 / 0.9 mm Fiber Type)



1. Fiber preparation

2. Insert the cleaved fiber into the connector

3. Create a slight bend to maintain contact. Release the wedge clip by squeezing both sides and remove the wedge clip.

4. Lastly, push the boot onto the connector's body

### Specifications

#### 1. 0.25 mm / 0.9 mm Fiber, 2 mm / 3 mm Cord

Applicable Fiber / Cord	0.25 mm fiber (240-265 $\mu\text{m}$ ), 0.9 mm fiber (850-950 $\mu\text{m}$ ), 2 mm cord ( $\varnothing$ 2, 0.9 mm fiber inside), 3 mm cord ( $\varnothing$ 3, 0.9 mm fiber inside)		
Connector	SC, LC, ST		
Fiber	SM		MM (OM1, OM2, OM3) (*1)
Polishing	SPC	APC	PC
Housing Color	Blue	Green	OM1: Beige, OM2: Black, OM3: Aqua
Insertion Loss (*2)	$\leq 0.5$ dB	$\leq 0.6$ dB	$\leq 0.4$ dB
Return Loss (*2)	$\geq 40$ dB	$\geq 50$ dB (*3)	-

#### 2. Rectangular Shaped Cable (Outdoor / Indoor)

Applicable Fiber	Outdoor cable (3.1 x 2 mm), Indoor cable (2 x 1.6 mm) (*4)	
Connector	SC, LC (*5)	
Fiber	SM	
Polishing	SPC	APC
Housing Color	Blue	Green
Insertion Loss (*2)	$\leq 0.5$ dB	$\leq 0.6$ dB
Return Loss (*2)	$\geq 40$ dB	$\geq 50$ dB (*3)

\*1. OM1: GI 62.5/125, IEC 60793-2-10 A1b, OM2: GI 50/125, IEC 60793-2-10 A1a.1, OM3: GI 50/125, IEC 60793-2-10 A1a.2

\*2. with reference connector, SM @ 1310, 1550 nm, MM @ 850, 1310 nm

\*3. Internal fiber is flat cleaved. Angle cleaved is available.

\*4. For other cable types, please consult with us.

\*5. Only indoor cable is available.



Contact us

**Ordering Information**

1. 0.25 mm / 0.9 mm Fiber, 2 mm / 3 mm cord:

Fiber	Polishing	SC	LC	ST
SM	SPC	FAST-SC-SM-ALL	FAST-LC-SM-ALL	FAST-ST-SM-ALL
	APC	FAST-SC-APC-SM-ALL	FAST-LC-APC-SM-ALL	-
MM (OM1)	PC	FAST-SC-GI6-ALL	FAST-LC-GI6-ALL	FAST-ST -GI6-ALL
MM (OM2)	PC	FAST-SC-GI5-ALL	FAST-LC-GI5-ALL	FAST-ST-GI5-ALL
MM (OM3)	PC	FAST-SC-10G-ALL	FAST-LC-10G-ALL	FAST-ST-10G-ALL



FAST-SC-APC-SM-ALL



0.9 mm Boot



0.9 mm Spacer Tube



2 mm Boot



3 mm Boot

2. Rectangular Shaped Cable (Outdoor / Indoor)

Fiber	Polishing	SC	LC (*6)	ST
SM	SPC	FAST(N)-SC-SM-UNI/GT (*E)	FAST-LC-SM-LF/GT	-
	APC	FAST(N)-SC-APC-SM-UNI/GT	FAST-LC-APC-SM-LF/GT	-

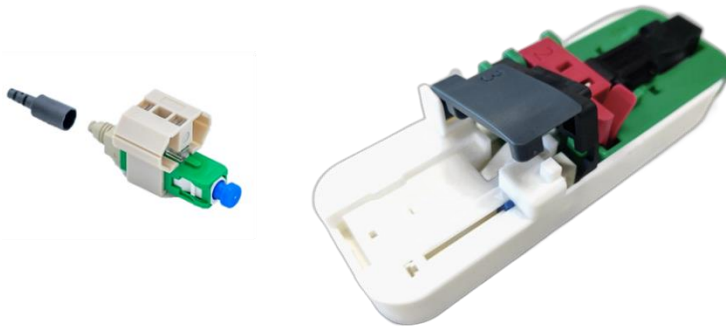
\*6. Only indoor cable available

\*E. FAST(N)-SC-SM-UNI/GT



Contact us

### FAST™-Plus Connector

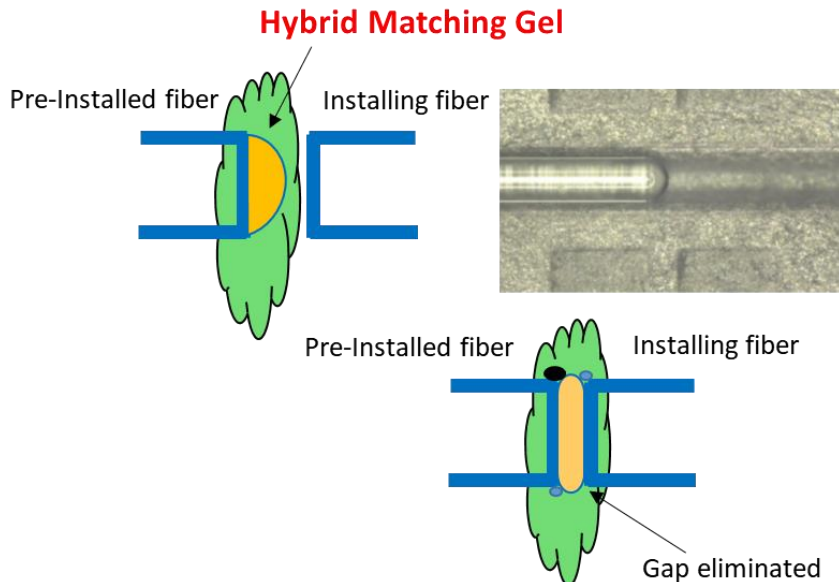


FAST™-Plus introduces a special cleave tool, maintenance free cleaver and a new type of index matching material, called 'solid gum' which is combined with the existing index matching gel.

Due to the blade design and operation, the maintenance free cleaver produces a highly repeatable and high-quality fiber cleave condition which enables an exceptional 'first time pass' connection; meaning an OPEX reduction in customer site revisits. Due to the fact Fujikura supply the maintenance free cleaver as a pre-packaged accessory with every box of FAST™-PLUS; the CAPEX normally associated with the use of a high precision cleave tool is therefore completely negated.

In conclusion, the FAST™ PLUS product range will benefit operators in their FTTH networks builds, especially in their access network where speed, accuracy and repeatable good results matter.

### Hybrid Matching Material

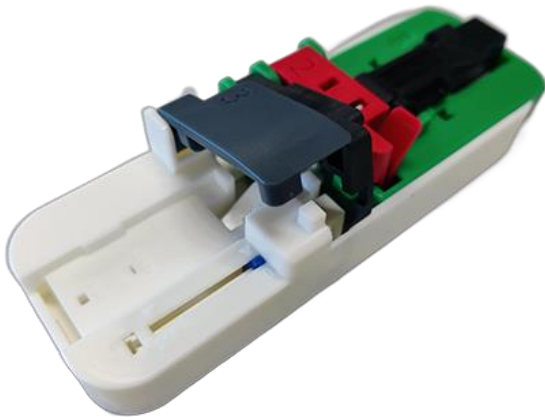


FAST™-Plus connector comes with a new type of index matching material, called 'solid gum' which is combined with the existing index matching gel. This technology fills tiny gaps between the pre-installed fiber and the installing fiber. On top of that, it prevents air bubbles and contaminations from moving.



Contact us

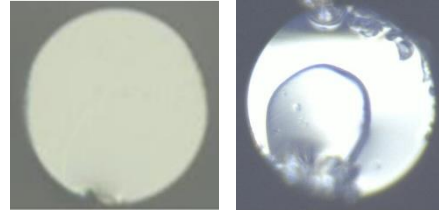
## Maintenance-Free Cleaver



### Features

- Complementary, comes with every 100 connectors
- No cleaver investment needed, CAPEX reduction
- Easy to operate
- Every cleave is a good cleave

### Fiber End Face



Good Cleave

Bad Cleave

## Specifications

Applicable Fiber/code	0.25 mm Fiber (240–265 μm), 0.9 mm Fiber (850–950 μm), 2 mm Cord, 3 mm Cord				
Connector	SC, LC				
Fiber	SM (*1)		MM (OM1) (*2)	MM (OM2) (*3)	MM (OM3) (*4)
Polishing	UPC	APC	PC		
Housing Color	Blue	Green	Beige	Black	Aqua
Insertion Loss (*5)	≤ 0.5 dB	≤ 0.6 dB	≤ 0.4 dB		
Return Loss (*5)	≥ 45 dB (Typical 50 dB)	≥ 60 dB (Typical 65 dB)	-		

\*1. SM ITU-T G. 625D, ITU-T G.657.A1 (ITU-T G.657.A2 type is also available, please contact us.)

\*2. GI 62.5/125, IEC 60793-2-10 A1b

\*3. GI 50/125, IEC 60793-2-10 A1a.1

\*4. GI 50/125, IEC 60793-2-10 A1a.2

\*5. with reference connector, SM @ 1310, 1550 nm, MM @ 850, 1310 nm

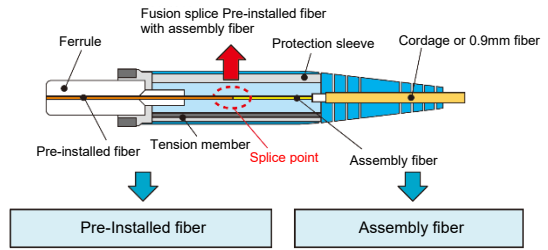
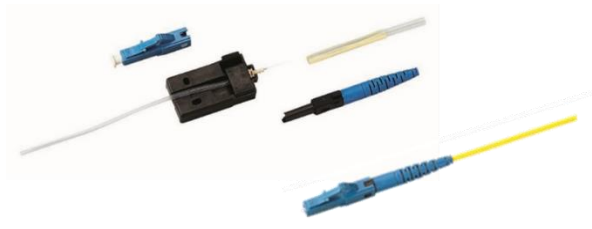
## Ordering Information

Fiber	Polishing	SC	LC
SM	UPC	FAST-SC-PLUS-UPC-A1-ALL	FAST-LC-PLUS-UPC-A1-ALL
	APC	FAST-SC-PLUS-APC-A1-ALL	FAST-LC-PLUS-APC-A1-ALL
MM (OM1)	PC	FAST-SC-PLUS-GI6-ALL	FAST-LC-PLUS-GI6-ALL
MM (OM2)	PC	FAST-SC-PLUS-GI5-ALL	FAST-LC-PLUS-GI5-ALL
MM (OM3)	PC	FAST-SC-PLUS-10G-ALL	FAST-LC-PLUS-10G-ALL



Contact us

### FuseConnect™ Series



FuseConnect™ is designed to work with an industry standard cleaver and splicers utilising a fibre holder system and the simplified field installation process minimises the potential for operator error and expensive connector scrap, even in difficult field environments or in exposed conditions at remote site locations.

Our latest fusion splicers are also pre-programmed for FuseConnect™ terminations, which further simplifies the assembly process.

#### Features

- No epoxy, No polishing
- Easily fusion splicer termination operation
- FuseConnect™ is designed for 900 µm coated fiber, 2 mm / 3 mm cord(\*1)

(\*1) Please contact us if 3 mm cordage type is required.

#### Applications

- Field termination of optical connector in data center and central office
- Low return loss connection

#### Specifications

Applicable Fiber	0.9 mm fiber (850–950 µm) or 2 mm cord (inside 0.9 mm fiber)		
Connector	SC, LC		
Fiber	SM		MM (OM1, OM4) (*2)
Polishing	UPC	APC	PC
Housing Color	Blue	Green	OM1: Beige, OM4: Aqua
Insertion Loss (*3)	≤ 0.4 dB		
Return Loss (*3)	≥ 50 dB	≥ 60 dB	-

(\*2) OM1:GI 62.5/125, IEC60793-2-10A1b, OM4:GI50/125, IEC60793-2-10A1a.3 OM2 and OM3 are also available

(\*3) with master, SM @ 1310,1550 nm, MM @ 850,1310 nm



Contact us

Ordering Information / Product Image (After assembly)

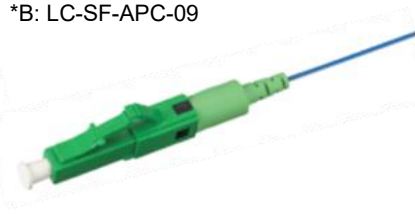
1) 0.9 mm fiber

Fiber	Polishing	SC	LC
SM	UPC	SC-SF-SM-09	LC-SF-SM-09 (*A)
	APC	SC-SF-APC-09	LC-SF-APC-09 (*B)
MM (OM1)	PC	SC-SF-GI6-09	LC-SF-GI6-09
MM (OM4)	PC	SC-SF-OM4-09	LC-SF-OM4-09 (*C)

\*A: LC-SF-SM-09



\*B: LC-SF-APC-09



\*C: LC-SF-OM4-09



2) 2 mm code

Fiber	Polishing	SC	LC
SM	UPC	SC-QA-SM-20 (*D)	LC-QA-SM-20 (*F)
	APC	SC-QA-APC-20 (*E)	LC-QA-APC-20 (*G)
MM (OM1)	PC	SC-QA-GI6-20	LC-QA-GI6-20
MM (OM4)	PC	SC-QA-OM4-20	LC-QA-OM4-20

\*D : SC-QA-SM-20



\*E : SC-QA-APC-20



\*F : LC-QA-SM-20



\*G : LC-QA-APC-20



Assembly Flow of Fuse Connector

FuseConnect-SC-QA-SM-20 (SC connector, QA type, SM, 2 mm cord)



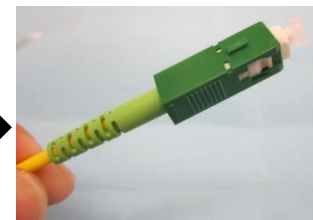
1. Remove cord jacket and cut Aramid yarn in proper length. Remove 0.9 mm coated fiber and set onto the fiber holder for cleaving the fiber in proper length.



2. Set fiber holder and connector holder onto fusion splicer for splicing.



3. Set protection sleeve to the spliced fiber with Aramid yarn. Heat the protection sleeve.



4. Assemble housing.

Note: See operation manual for details. Assembly flow is different in connector types and cord types.



Contact us

**Assembly Tool**

- SF types For 0.9 mm fiber : **FUSECONNECT-■-SF-■-09**

Tools	Connector Types	SF Types
		0.9 mm fiber
Stripper		0.25 mm fiber stripper SS03 or 0.9 mm fiber stripper MS-4B-08S-B9
Fiber Holder		FH-50-900, FH-60-900
Cleaver		CT08, CT16, CT50
Fusion Splicer		Fujikura Fusion Splicer (*4)

- QA types For 2 mm cord : **FUSECONNECT-■-QA-■-20**

Tools	Connector Types	QA Types
		2 mm cord
Cord Clamp		CABLE CLAMP (2 mm) (*5)
Cord Jacket stripper		0.25 mm fiber stripper SS03 or off-the-shelf fiber stripper
Aramid yarn cutter		Off-the-shelf tool
Stripper		0.25 mm fiber stripper SS03 or 0.9 mm fiber stripper MS-4B-08S-B9
Fiber Holder		FH-FC-20
Cleaver		CT08, CT16, CT50
Fusion Splicer		Fujikura Fusion Splicer (*4)



For 2mm cord  
**CABLE CLAMP (2mm) \*5**



**0.25mm fiber stripper  
SS03**



**0.9mm fiber stripper  
MS-4B-08S-B9**



**Fiber holder**



**Cleaver  
CT50**



**Fusion Splicer \*4  
90R**

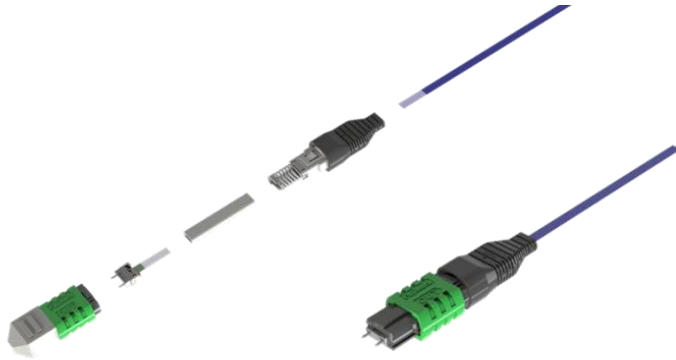
Note: Alcohol and wipes are also necessary for fiber cleaning process

(\*4) Applicable Fusion Splicers 90S+/90S/90R, 45S, 41S+/41R, 70S+/70S/70R, 19S+/19S/19R, 12Si/12S/12R  
(\*5) Cable clamp for 3mm is also available.



Contact us

## FuseConnect™ MPO



FuseConnect™ MPO splice-on, field-installable connectors are uniquely designed and feature just six components. The innovative factory pre-polished ferrule allows for a field-termination process that eliminates the need for polishing, adhesives and crimping in the field and minimizes the potential for operator error and expensive connector scrap. FuseConnect™ MPO is part of the FuseConnect™ splice-on connector family which includes SC, LC and ST style connectors.

The connector is designed for use with the new RT-02 ribbonizing tool which does not require ribbonizing glue resulting in a cleaner termination process.

FuseConnect™ MPO performs as an equivalent to the standard factory terminated MPO/MTP® assemblies. Designed to utilize standard ribbon, SpiderWeb Ribbon™, or loose tube cable, this connector helps minimize the complexity involved in the termination of a multi-fiber connection, allowing for a reliable and repeatable termination in field applications. Fujikura offers a tool kit as well as a variety of accessories designed to meet all your installation needs for your FuseConnect™ MPO application.

### Specifications

Applicable Fiber / Cord	<ul style="list-style-type: none"> <li>● 12 fiber ribbon type (0.25 mm fiber)</li> <li>● 3 mm cord type</li> </ul>			
Connector	MPO (12f)			
Type	SM (*1)	Low Loss SM	MM (OM1) (*2)	MM (OM4) (*3)
Polishing	APC		PC	
Housing Color	Green	Yellow	Beige	Aqua
Insertion Loss (*4)	≤ 0.75 dB	≤ 0.35 dB	≤ 0.35 dB	
Return Loss (*4)	≥ 65 dB	≥ 65 dB	-	
Remark	6 pcs packing unit			

\*1. Mode field diameter: 8.6 μm (For 9.2 μm type, please consult us.)

\*2. GI 62.5/125, IEC 60793-2-10 A1b

\*3. GI 50/125, IEC 60793-2-10 A1a.3

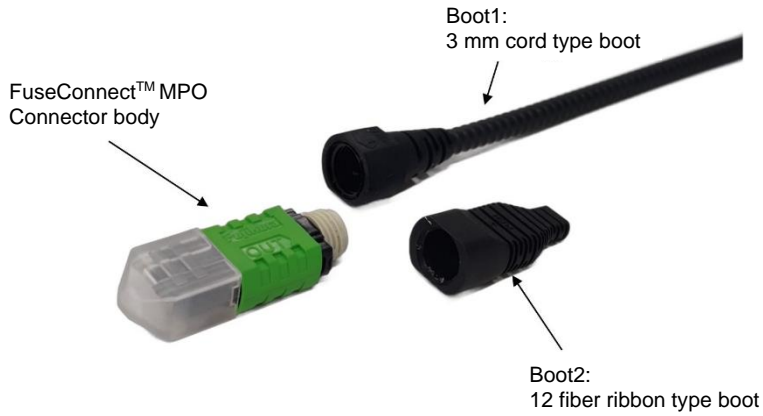
\*4. with reference connector, SM @ 1310, 1550 nm, MM @ 850, 1310 nm



Contact us

Ordering Information

Type	Polishing	Male (Connector with Guide Pin)	Female (Connector without Guide Pin)
SM	APC	FUSECONNECT-MPO-S-MALE-SM15-6	FUSECONNECT-MPO-S-FEMALE-SM15-6
Low Loss SM	APC	FUSECONNECT-MPO-S-MALE-LLSM15-6	FUSECONNECT-MPO-S-FEMALE-LLSM15-6
MM (OM1)	PC	FUSECONNECT-MPO-S-MALE-GI6-6	FUSECONNECT-MPO-S-FEMALE-GI6-6
MM (OM4)	PC	FUSECONNECT-MPO-S-MALE-OM4-6	FUSECONNECT-MPO-S-FEMALE-OM4-6



Optical product:  
RT-02/Ribbonizing tool



Contact us

## Mechanical Splice

FMSEZ-025



Assembly tools for FMSEZ-025



The Mechanical Splice enables efficient field splicing without the need for a fusion splicer.

### Features

- Mechanical Splice for  $\varnothing$  0.25 mm Fiber Connection.
- Includes 1 set of assembly tools for every 50 mechanical splice sets.

### Specifications

	FMSEZ-025
Size	40 x 4 x 4 (mm)
Insertion Loss	Average 0.1 dB, Maximum 0.4 dB
Reflection Loss	$\geq$ 40 dB
Required tools	Fujikura's Cleaver and etc (Assembly tools is attached in product)
Applicable Fiber	$\varnothing$ 0.25 mm fiber
Applicable Temperature Range	-40-75 °C



Contact us

## Push-Type Cleaners



Easy-to-use solution for cleaning fiber optic connectors on jumpers and in adapters. Since over 85% of network outages are attributed to dirty and/or damaged connectors, it is critical to clean every connector! The patented One-Click Cleaner uses the mechanical push action to advance an optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively, but gently, cleaned. It is a favorite of field technicians for its ease of use, durability, effectiveness, and small size.

### Features

- Patented single-action cleaning in a small ergonomic design
- Variety of sizes and types for different connector styles
- Cleans connectors in both jumpers and bulkhead adapters
- Low cost per clean

### Applications

- Removing oil, dust, and dirt without damaging delicate fiber end-faces
- Both dry and wet cleaning (add cleaning fluid)
- Clean connectors in tight spaces
- Field or laboratory use

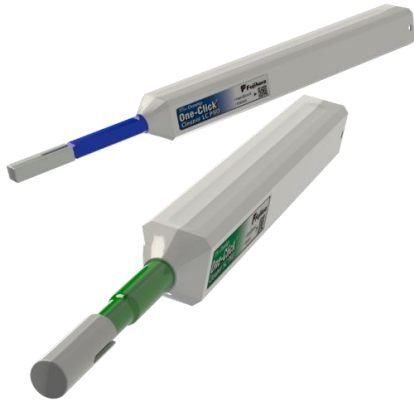
### Order Information

Description	Model Number
One-Click Cleaner SC PRO (775+ cleans)	SCPRO-CLK-A
One-Click Cleaner LC PRO (775+ cleans)	LCPRO-CLK-A
One-Click Cleaner SC, ST, FC (500+ cleans)	SC-CLK-B
One-Click Cleaner Mini-500 SC, ST, FC (500+ cleans)	SC-MINI-CLK-A
One-Click Cleaner MU/LC (500+ cleans)	MU/LC-CLK-C
One-Click Cleaner Mini-500 MU/LC (500+ cleans)	MU/LC-MINI-CLK-A
One-Click Ultra Cleaner 2.5 (enlarged cleaning) SC, ST, FC (500+ cleans)	M250-E-CLK-A
One-Click Cleaner HOC, Hardened Optic Connectors (500+ cleans)	HOC-CLK-A
One-Click Cleaner D-LC, Duplex LC (2 x 500+ cleans)	DLC-CLK-A
One-Click Cleaner SN Duplex (2 x 500+ cleans)	SN-CLK-A
One-Click Cleaner CS/MDC Duplex (2 x 500+ cleans)	CS/MDC-CLK-A
One-Click Cleaner ODC, outdoor connector (500+ cleans)	ODC-CLK-A
One-Click Cleaner M20, 2.0 mm ferrule (500+ cleans)	M20-CLK-A
One-Click Cleaner MT-RJ (500+ cleans)	MTRJ-CLK-A
One-Click Cleaner MPO (500+ cleans)	MPO-CLK-D
One-Click Cleaner MPO-16 (500+ cleans)	MPO16-CLK-A
One-Click Cleaner MT-BP (500+ cleans)	MT-BP-CLK-A



Contact us

## One-Click™ Cleaner PRO Series



### Features

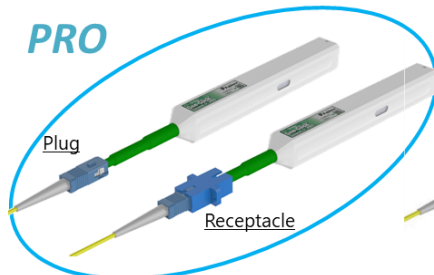
- PRO series maintaining the features of One-Click Cleaner:
  - Patented single-action cleaning in a small ergonomic design
  - Variety of sizes and types for different connector styles
  - Cleans connectors in both jumpers and bulkhead adapters
  - Low cost per clean
- Reduced cleaning time by eliminating the guide cap
- Increased number of cleanings by 1.5 times compared to Fujikura conventional products
- High cleaning performance by moving the cleaning string and rotating the head at the same time
- Compact/Extendable cleaning nozzle

### Applications

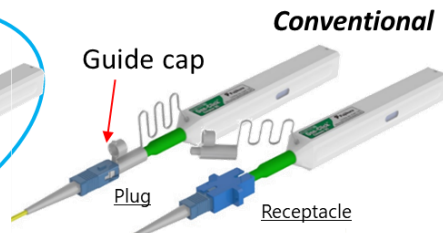
- Removing oil, dust, and dirt without damaging delicate fiber end-faces
- Clean connectors in tight spaces
- Field or laboratory use

One-Click Cleaner is an easy-to-use solution for cleaning fiber optic connectors on jumpers and in adapters. Since over 85% of network outages are attributed to dirty and/or damaged connectors, it is critical to clean every connector!

The patented One-Click Cleaner uses the mechanical push action to advance an optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively, but gently, cleaned. It is a favorite of field technicians for its ease of use, durability, effectiveness, and small size.

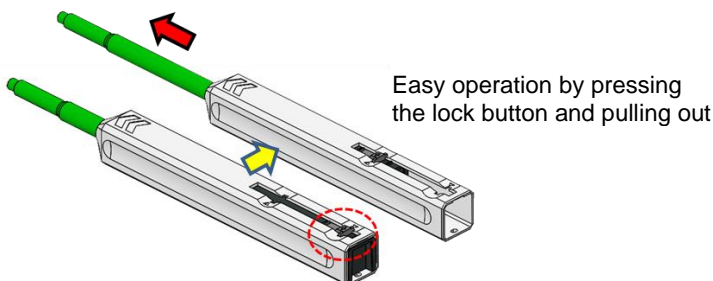


**PRO**  
Not required to attach guide cap



**Conventional**  
Required to attach guide cap

### Reduced Cleaning Time by Eliminating the Guide Cap



Easy operation by pressing the lock button and pulling out

### Compact/Extendable Cleaning Nozzle (Note)



With one click





### High Cleaning Performance (Note)

Note: Features are the same as the conventional One-Click Cleaner SC/LC.



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**Specifications**

	One-Click™ Cleaner SC PRO	One-Click™ Cleaner LC PRO
Model Number	SCPRO-CLK-A	LCPRO-CLK-A
Color	Green	Blue
Applicable Connector	SC connector	LC connector
Dimensions (mm)	W 17.5 x H 17.5 x L 185 (with nozzle extended: L 220)	
Cleaning Times	775 times or more	
Cleaning Method	Dry cleaning	
Appearance		



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## One-Click™ Cleaner MPO ESD



### Features

- The cleaner body is made from highly conductive resin, allowing for rapid dissipation of static electricity.
- It effectively suppresses static electricity generated on the ferrule end-face during cleaning, reducing the risk of dust attraction.
- Suitable for use in ESD(electrostatic discharge) protected area and compliant with IEC 61340-5-1(\*1) standards.

The One-Click™ Cleaner MPO ESD is inaugural multi-connector(MPO) cleaning solution compliant with IEC IEC 61340-5-1(\*1) standards. This cutting-edge device effectively mitigates static electricity on the connector's end face during the cleaning process, thereby preventing the movement of dust caused by static charges. It is particularly well-suited for optical transceivers sensitive to static electricity and for connections that demand exceptional low-loss performance.

### Specifications

	One-Click™ Cleaner MPO ESD
Type Name	MPOESD-CLK-A
Applicable connector	MPO (12/24c MPO, SM/MM)
Dimension(mm) (Not included guide cap)	W19 x H43.5 x L194
Cleaning times	≤ 500 times
Surface resistance (Ω) (*1)	< 1 x 10 <sup>12</sup>
Charge decay(sec) (*1)	< 2

\*1) IEC 61340-5-1: ESD management standard, ESD(Electro Static Discharge)



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