

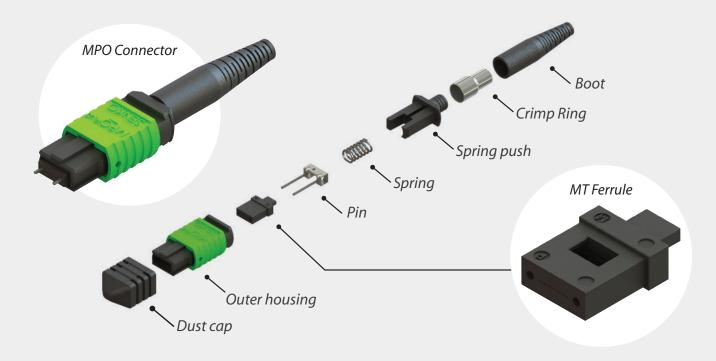


INDUSTRY'S LOWEST INSERTION LOSS

What is a MPO?

MPO is an industry term to describe a multi-fiber Push On style connector.

By definition, the MPO is a multi-fiber connector (a single connector that houses multiple fiber terminations) that is defined by **IEC-61754-7**, "Fiber optic interconnecting devices and passive components – Fibre optic connector interfaces - Part 7: Type MPO connector family"; and **TIA-604-5-D**, "Fiber Optic Connector Intermateability Standard, Type MPO".



The connector concept was originally designed by NTT Group and finite number of manufacturing licenses were subsequently issued. Senko is among these licensee's. There are several variants of MPO compliant connectors in the markets such as the MTP® connector*.

The MPO's rise in popularity stems from its unique ability to mate multiple fibers (2-72 fibers) within a single connector body housing therefore significantly reducing space. The connector's general design also has unique features from conventional connectors such as being rectangular in shape. It utilizes guide pins and precision holes for ferrule to ferrule alignment within the adaptor as opposed to a precision alignment "sleeve" used in conventional adaptors and the ferrule (MT) is made from a monolithic, high precision glassed filled polymer as opposed to a ceramic material.

Whereas most MPO's supplied in the market today continue from the original design parameters, Senko's MPO Plus Series of enhanced MPO style connectors has taken a leadership role in refining and optimizing the original product in the areas of mechanical durability, product features and most importantly the optical performance of the MT ferrule itself.

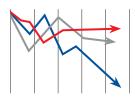
*MTP is a registered trademark of US Conec Ltd





Key improvements made in the MPO Plus

Low Insertion Loss Ferrule



- · Industry's lowest insertion loss.
- MAX 0.25dB and a typical lower than 0.1dB on both SM Low Loss and MM Low Loss ferrule

Designed to Pass GR 1435

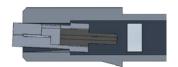


Mechanically stronger, meets and exceeds Telecordia GR-1435

Removable Housing

The removable housing makes it easy to change gender or to clean ferrule

Free Floating Ferrule



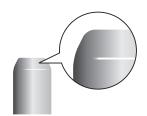
A free floating ferrule design to maintain optical connection during mechanical side-pull forces

Advanced Metal Pin



SENKO's stainless steel guide pins are manufactured to the tightest specification, allowing precise alignment of the ferrule

Chamfer Guide Pin



Rounded chamfer on the Guide pin that reduces guide hole chipping thus helping to maintain precise alignment

Improved Spring Design







SENKO's enhanced oval spring provides more ribbon clearance and enhances mechanical performance

Conventional round spring allows less ribbon clearance; limits mechanical performance

Several Boot Options



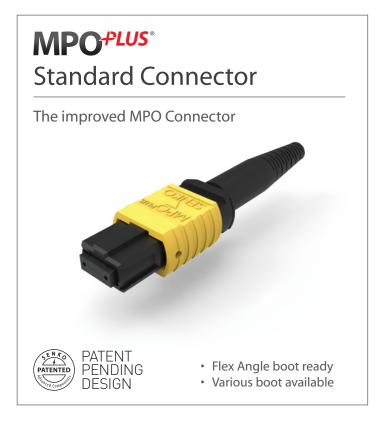
Boots are available for Ribbon Cable, Ribbon fiber, Round boot and the patent SENKO Flex Angle boot.



2pc Back Post



2pc back post and other enhancement allows easier termination









MPO^{PLUS®}

Premium Mini Connector

Simplified Gender and Polarity changes Total length 37mm (for 3mm round boot) Polarity change without a tool





- HD Push Pull tab ready
- Flex Angle boot ready
- · Various boot available

MPO^{PLUS®}

Bayonet Connector

The Smallest Housed MPO connector in the world Total length less than 18mm





- Simple Bayonet turn for Engage and Disengage
- Works with all standard MPO hardware

MPO^{PLUS®}

Latch Connector

A new concept MPO with a latch. Easy plug-in and plug-out with a single latch.





- Various boot type available
- Flex angel boot ready

MPO Connection with no housing. The smallest footprint you can achieve. • Insert and removable tool available





















MPO^{PLUS} Standard Connector

The Improved MPO Connector







FEATURES

- 12 Fiber SM low loss, and 12 Fiber MM low loss gives industries lowest insertion loss of a Max 0.25dB and a typical of lower than 0.1dB
- Removable housing
- · Metal pin holder
- Oval spring
- 20N spring for 24F MM ferrule
- Spring push with slit for easier assembly
- Flex angle boot and other boot styles

The MPO Plus connector offers up to 32 times the density of standard connectors, providing significant space and cost savings. MPO Plus Connectors utilize precision molded MT Ferrules, with metal guide pins and precise housing dimensions to ensure fiber alignment when mating. MPO Plus Connector housing are available in Green (for SM), Yellow (for SM Super Low loss), Beige (for MM) and Aqua (for OM3 Fiber). Ferrule available in 4, 8, 12, 16, 24 and 32 fiber hole configuration. Ferrules are available for SM Standard, SM Super Low Loss, MM Standard and MM Super Low Loss. Boots are available for Ribbon Cable, Ribbon fiber, Round boot and the patent SENKO Flex angle boot.

MPO^{PLUS®}

Ribbon Cable

MPO^{PLUS®}

Bare Ribbon Fiber Short

MPO^{PLUS®}

Bare Ribbon Fiber Mini







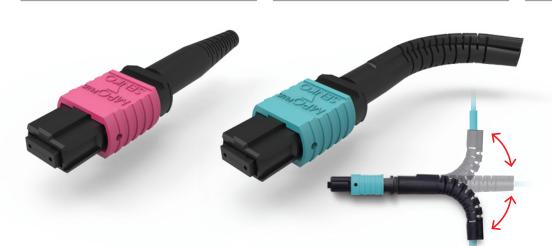
MPO^{PLUS®}

Round 3mm

MPO^{PLUS}°

Flex Angle Boot













Specialty boot design available.

SPECIFICATION	SM LOW LOSS		SM STA	NDARD	MM LO	W LOSS	MM STANDARD	
For MPO 12 fiber	Typical	Max	Typical	Max	Typical	Max	Typical	Max
Insertion Loss*	0.1dB	0.25dB*	0.20dB	0.70dB	0.08dB	0.25dB*	0.15dB	0.50dB
Return Loss	60dB (8 degree polish)		60dB (8 degree polish)		25dB (flat polish)		25dB (flat polish)	
Operating temperature				-40C to	+75C			

^{*} SM Low loss and MM Low loss Max IL 0.25dB to be 95% of all fiber

For Detail IL value on other ferrule types, please refer to page 21, 22 and 23

* Note: IL Values are per single fiber for all fibers

^{*} Above number is only achievable when using SENKO Recommended Reference Jumper, Polishing process and testing method

MPO^{+LUS®}



Premium Mini Connector

Polarity & Gender change made easy

without opening the housing







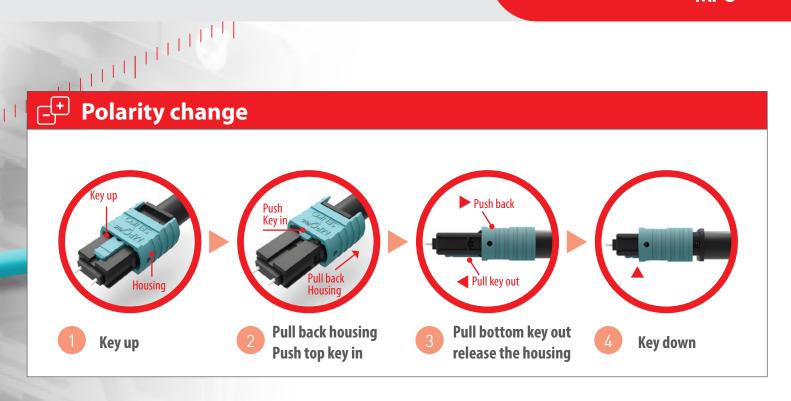
FEATURES

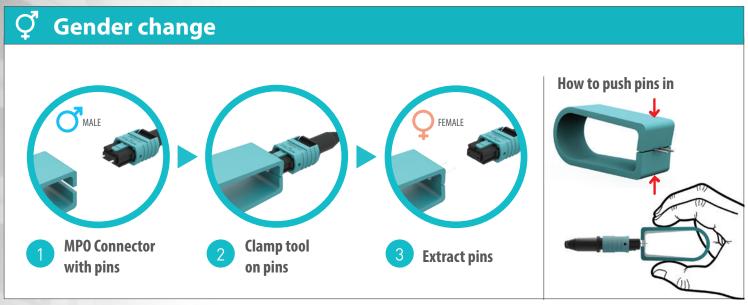
- · SENKO patented design
- · All the benefit of the MPO Plus and more.
- Industries shortest length of Total length of 37mm for 3mm round
- · Polarity change in the field without any tool
- · Simple gender change without taking off the housing
- · Various boots types available
- · Complies with MPO IEC and TIA/EIA Requirements



Size comparison







MPO Plus Mini, ready for 40/100G Ethernet Migration

Unlike traditional 10GbE transmission which utilizes a 2-fiber configuration, the 40GbE and 100GbE are implemented over multi fiber array MPO connectors. It is critical that proper connector orientations are established. The TIA 568 standard provides three methods for configuring systems to ensure that proper connections are made.

Each MPO connector has a key on one side of the connector body. The "Key Up" position refers to the orientation where the key is located at the top position of the connector. When looking at the end face of the connector, position 1 is on the far left while position 12 is on the far right. Depending on the adopted connectivity orientation, the MPO adapter needs to be suitable for its application, which is either "Key Up to Key Down" or "Key Up". In addition, MPO connectors are differentiated to a Male and Female connector. A Male MPO connector has two alignment pins while a Female MPO connector has two alignment holes where the pins are to be inserted when a connection is made. An MPO connection can only be performed between a Male and Female connector to ensure proper alignment which is required to maintain a low loss connection. SENKO's MPO Plus MINI Connector allows end users to freely change Polarity or Gender in the field, which gives great flexibility in network configuration.

MPOPLUS® Bayonet Connector

The Smallest MPO Connector in the world





Plug in Connector and turn Bayonet **clockwise** to

ENGAGE



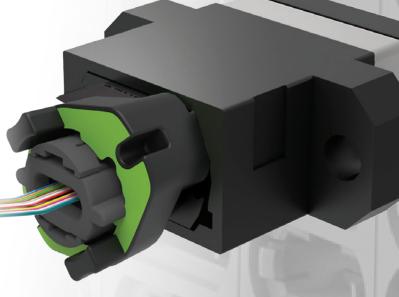


To remove Connector turn Bayonet **counter clockwise** to

DISENGAGE







FEATURES

- · SENKO patented design
- Smallest housed MPO Connector with a total length of 18.5mm for Ribbon Fiber
- Works with existing conventional MPO adapters.
- SM, SM Super low loss, MM, MM Super low loss type available
- Ribbon Fiber, Ribbon Cable, various boots available
- · Spring loaded free floating ferrule
- Integrates other MPO Plus benefits such as low loss ferrule, chamfered metal guide pin, oval spring & ferrule free floating

Solution where space is a matter

The 17.25mm total length MPO Bayonet MPO Connector, make a ideal solution for usage where space is a limited. Works with all conventional MPO Adapters, and the spring loaded free floating ferrule allows the optical connection in all times.

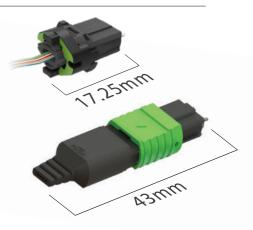
Color available in Green, Yellow, Aqua, Beige and more.



Size comparison

MPO Plus Bayonet Connector

Conventional MPO Connector

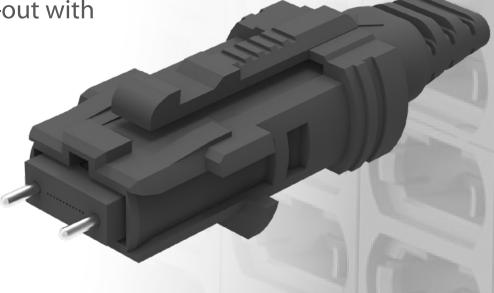


MPOPLUS® Latch Connector



Easy plug-in and plug-out with a single latch



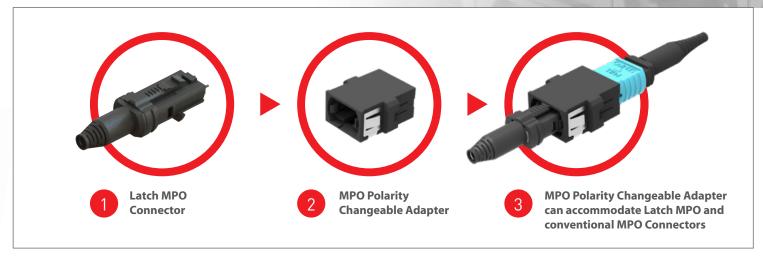




Note: MPO Polarity Changeable Adapter is required. MPO Polarity Changeable ready Adapter can accommodate Latch MPO Connector and Conventional MPO Connector.

FEATURES

- SENKO patented design
- · Single latch design makes ease of connect and disconnect
- Latch MPO Ready adapter can accommodates Latch MPO Connector and conventional MPO Connector
- · Spring loaded free floating ferrule
- Includes other benefits of MPO Plus as, low loss SM and low loss MM Ferrule, metal pin holder & oval spring
- Various boots available



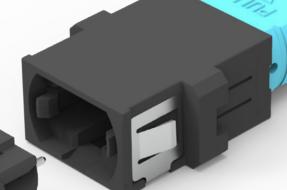
MPO^{+LUS®}

Micro Latch Connector

MPO Micro Latch Connector

The smallest size plugable **MPO Connector**

Polarity Changeable Adapter



NOTE: Polarity Changeable adapter is needed. Polarity Changeable adapter, one side accommodates a Micro Latch Connector and the other side accommodates a conventional MPO Connector.



FEATURES

- SENKO patent pending design
- · Smallest footprint possible
- NO housing design
- · Usage of existing MPO Plus ferrule
- SM low loss, MM low loss and all other MPO Plus ferrule available
- · Special tool for Plug in and Plug out

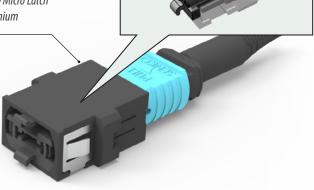
Flush mount reduces space significantly

The Micro Latch Connector fits snugly into the housing.

The very small size of the MPO Micro Latch Connector does not protrude from the housing, greatly reducing space.

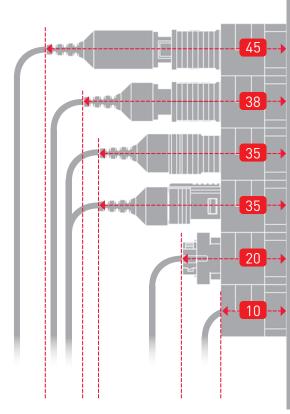


MPO Micro Latch Premium



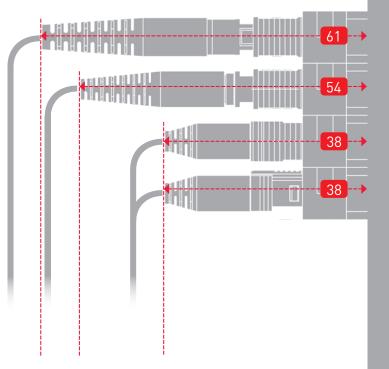
MPO Plus Connectors Comparison

MPO Plus reduces cable protrusion in panels



Conventional MPO MPO-Plus Mini Latch Bayonet Micro Latch

3.0mm Cable





senko.com/patents

IP-MPOWeatherproof connectors



Safe Lock Feature

Low

Insertion Loss

· Sliding lock ring

Exceed ODVA

Requirements

- Provides tamperproof protection
- · Assure bayonet collar is fully engaged



iacketed subunits

· Chemical Resistance

Simple Bayonet

Locking System

5-8mm OD cable with two 2.0mm to 3.0mm





• 100lbs superior pull force

· Patent design

· Feed-through

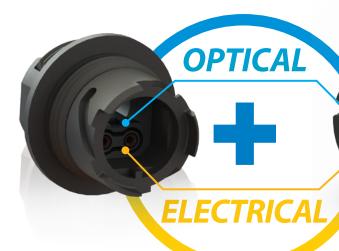
IP-ONE

Optical'n'Electrical

Power/Fiber combined









- SENKO patent pending design
- · Smallest footprint Bayonet Style outdoor connector
- SC, Field installable SC, SN (2x LC), and MT ferrule available
- Minimizes box size requirement for outdoor application
- · Same footprint with various fiber configuration
- · Patented Safe Lock Ring feature
- · Optimized for aerial application



Faster installation Time



Indoor/Outdoor Applications



Space Saving



Cost Effective

Empowering the Internet Of Things

SENKO introduces its new IP-ONE hybrid connector, combining Power & Fiber in ONE, specifically designed to meet the demands of the Communications Market.

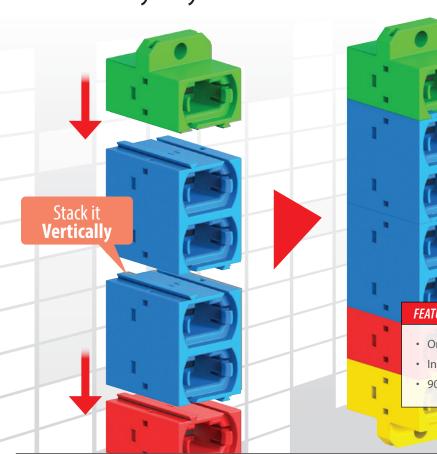
SENKO's IP-ONE is a cost effective hybrid connector designed for harsh environmental applications, providing power and optical connectivity together to any remote equipment. SENKO IP-ONE reduces material cost, simplifies installation and has found applications in Front-haul, Backhaul, DAS and FTTX deployments. It's the connector of choice for anywhere that requires both power and fiber remotely.

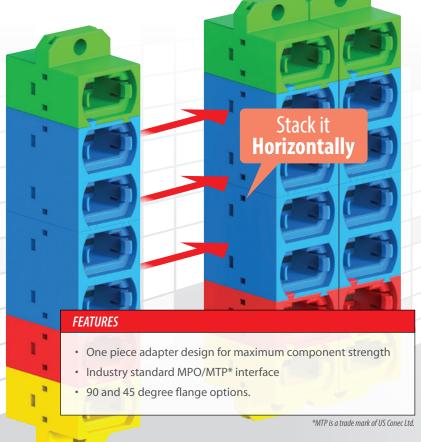


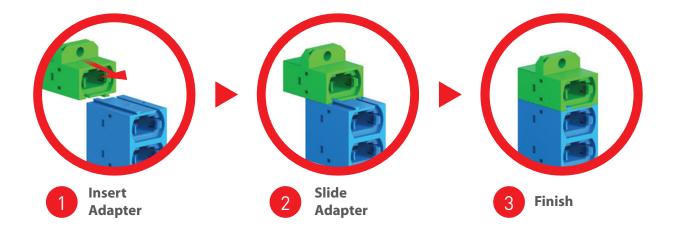
MPO Stackable Adapters



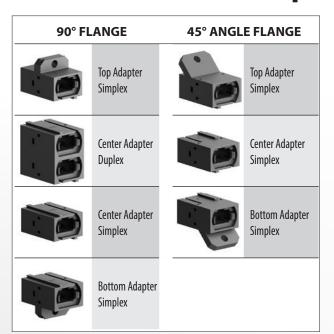
You can stack them vertically & horizontally for as many as you need.

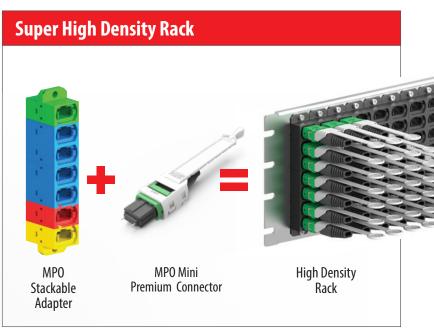


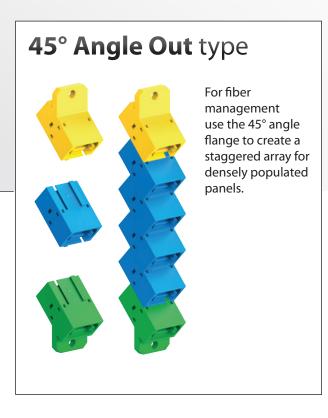


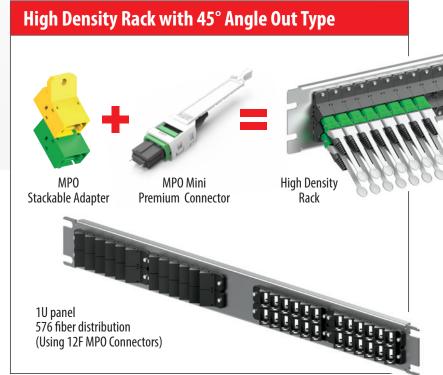


MPO Stackable Adapter Components



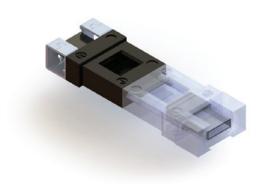






High quality material for trusted reliability

SENKO's MT Ferrule, made from high quality glass filled PolyPhenylene Sulfide (PPS) is used with our MPO Plus Connectors and tested against the stringent requirement of Telcordia's GR-1435. Glass filled PPS is ideal for precise tolerance molded components because it has minimal water absorption and has a very low coefficient of linear thermal expansion. As such, the ferrule offers excellent performance and properties for all environments.



Ultra precision molding for uncompromised performance

With the recent advancement to precision molding technology, SENKO ferrules are manufactured with much tighter specification as compared to conventional products. With these ultra-precise dimensions, SENKO is able to achieve the lowest industry insertion loss of 0.25dB guaranteed with a typical IL of greater than 0.1dB for the SM and MM Low loss ferrule. SENKO's Low Loss ferrules are made to meet the new IEC 61755-3-31 Grade B requirements.



Ultra precision machined metal guide pin

SENKO's innovative chamfered MT Guide pin design together with its improved spring are key to confidently align 2 MT Ferrules and provide a reliable fiber to fiber mating anytime, every time. SENKO's MPO Plus chamfered stainless steel guide pins are manufactured to the tightest specification having a tolerance of +/-0.1Um for the SM Super low loss guide pin , allowing a super precision alignment of the ferrule. Guide pins are available for SM Grade, SM Super Low Loss grade MM Grade and MM Super Low Loss grade.



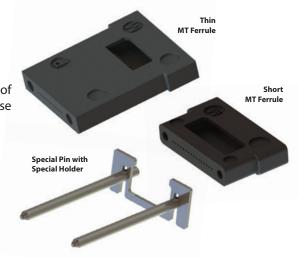
MPO^{PLUS®}

Specialty ferrules and guide pins

SENKO designs and manufactures specialty MT Ferrules and Guide Pins for a variety of applications. Versions up to 48 fibers with various dimensions are achievable. Please contact the SENKO sales team for further information.

FEATURES

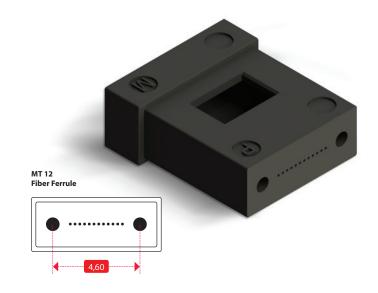
- · Special MT ferrule having higher fiber count
- Special MT ferrule having different dimension
- · Thin MT Ferrule, Short MT Ferrule
- · Special Guide pin and Pin holder



MPOPLUS MT Ferrule

12 Fiber Ferrule

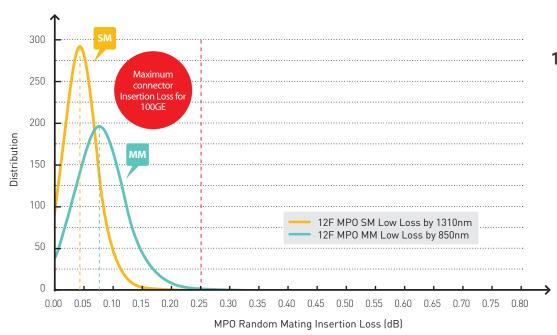
SENKO's MPO Plus MT 12 fiber ferrule are the most common used MT Ferrule in the market which gives the best combination of easy-to-use and low insertion loss. The SM Low Loss and MM Low Loss now guarantees the industry's lowest insertion loss of 0.25dB, with a typical of greater than 0.1dB, which exceeds the IEC 61755-3-31 Grade B Requirement. Quality, Price, durability and ease of assembly makes the 12 fiber your best choice.



SPECIFICATION	SM LOW LOSS	SM STANDARD	MM LOW LOSS	MM STANDARD
IL Typical vs Reference connector	0.10dB	0.20dB	0.08dB	0.15dB
IL Max vs Reference connector	0.25dB	0.70dB	0.25dB	0.50dB
IL Typical Random Mating	0.12dB	0.20dB	0.10dB	0.15dB
Random Mating IEC Spec: IEC61755-3-31	Grade B (0.25)	Grade C (0.5)	n/a	n/a
Return Loss	60dB	60dB	25dB	25dB
Recommended PIN Used	SM Low loss Pin	SM Pin	SM Pin	MM Pin

^{*} Above number is only achievable when using SENKO Recommended Reference Jumper, Polishing process and testing method

^{*} SM Low loss and MM Low loss Max IL 0.25dB to be 95% of all fiber



SENKO SM and MM 12 Fiber Super Low Loss

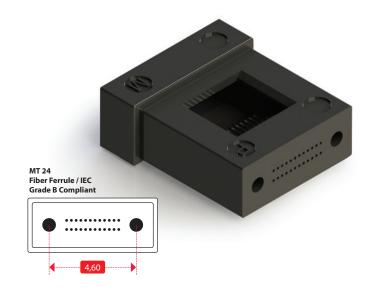
Insertion loss distribution MAX IL 0.25dB

^{**} Above insertion loss and return loss are only achievable when proper polishing is made tested by SENKO's recommended process

MPOPLUS MT Ferrule

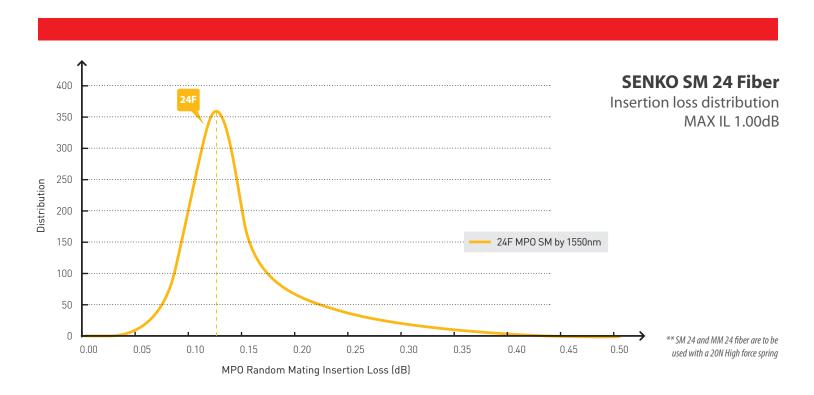
24 Fiber Ferrule

SENKO's MPO Plus 24 fiber MT Ferrule consists of 2 rows of 12 high precision fiber holes, yielding a high density connection with industry leading insertion loss values. Versions available in SM, MM and Low Loss MM make it the ideal choice for super high density connections and high speed 100G and 400G parallel optics platforms. SM 24 and MM 24 fiber are to be used with a 20N High force spring.



SPECIFICATION	SM	MM LOW LOSS	MM
IL Typical vs Reference Connector	0.25dB	0.15dB	0.20dB
IL Max vs Reference Connector	1.00dB	0.35dB	0.50dB
IL Typical Random Mating	0.50dB	0.20dB	0.25dB
Return Loss	60dB	25dB	25dB
Recommended PIN Used	SM Pin	SM Pin	MM Pin

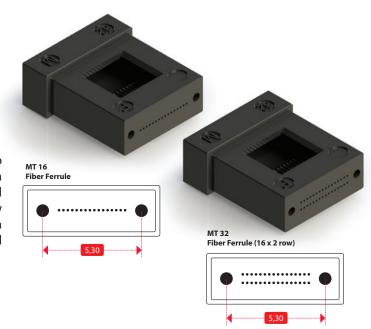
^{*} Above number is only achievable when using SENKO recommended reference jumper, polishing process and testing method



MPOPLUS MT Ferrule

16 and 32 Fiber Ferrule

SENKO's MPO Plus MT 16 and 32 fiber ferrules are designed to meet TIA 604-18 standard which addresses 16 fiber hole width MPO requirements and are available in single row 16 fiber and 2x16 row 32 fiber configurations. Industry leading 16F SM Low Loss ferrules meet the most demanding insertion loss and return loss requirements for high speed 100G, 400G and beyond parallel optical networks.

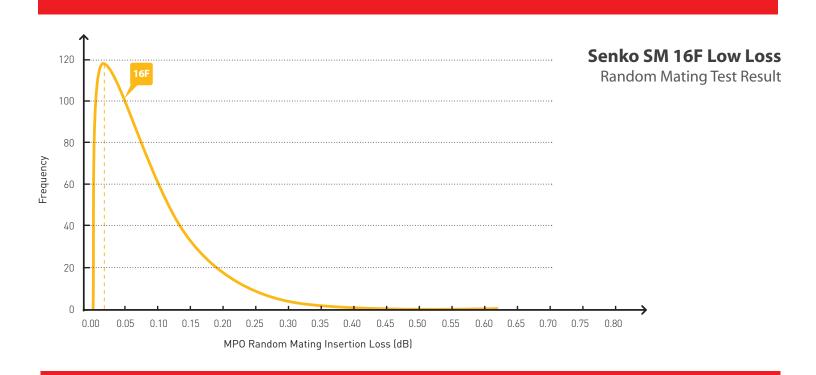


SPECIFICATION	16F SM LOW LOSS	16F MM LOW LOSS	16F MM	32F MM
IL Typical vs Reference Connector	0.15dB	0.15dB	0.20dB	0.25dB
IL Max vs Reference Connector	0.35dB	0.35dB	0.60dB	0.60dB
Random Mating Grade IEC 61755-3-31	0.Grade B*	n/a	n/a	n/a
Return Loss	60dB	25dB	25dB	25dB
Recommended PIN Used	SM Low Loss Pin	SM Pin	MM Pin	MM Pin

^{*} Meets the current IEC Grade B performance requirement for 12F MT ferrule. The grade specification for 16F MT is underdevelopment in IEC

FEATURES

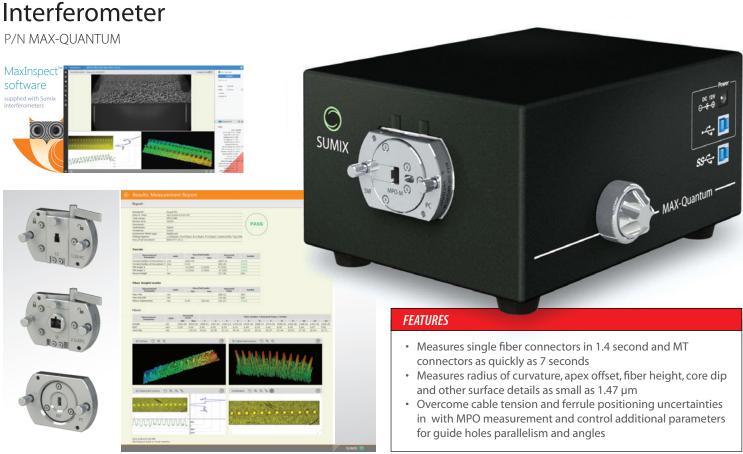
- One row of 16 fiber or 2 row of 16 fiber (= 32 Fiber)
- New Pin to Pin width of 5.3mm
- New pin OD Spec of 0.55mm
- New MT specification being standardized by TIA 604-1 (FOCIS 18) and IEC (61754-7-3)



^{**}Above number is only achievable when using SENKO recommended reference jumper, pPolishing process and testing method

Senko has a complete line of products to help you with getting the optimal performance from your MPO connectivity. Senko has *Try Before You Buy* demo units available so that can do a risk free evolution for deciding if our products will meet your needs. We also offer product training that can be tailored to your requirements as well as full technical support.

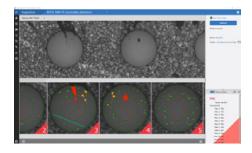
SUMIX MAX Quantum



SUMIX Manta W+ Inspection Scope

P/N MNT-W-STAND





- Extremely fast inspection taking 2 seconds to check a standard MPO connector (12 or 16 fibers)
- Detailed high-resolution picture with 1.8 µm resolution and 0.75 µm defect size detection capability
- Large field of view $(4.1 \times 3.0 \, mm)$ and able to see beyond the guide pins and guide pin holes

End Face Metrology & Polarity Management

SUMIX PolarisBenchtop Microscope

P/N POLARIS

Designed for critical examination of the polished fiber end faces and may serve as a reference system to verify and adjust lowe resolution microscopes on the production line.



- Check your defects as small as 0.2 μm in diameter and scratches as small as 0.4 μm in width
- Fully automated movement along MPO connector endface automatic tracking of the fibers in numerical order

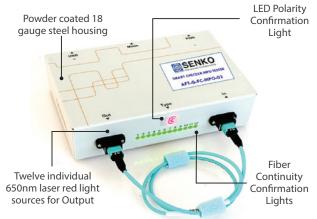
SUMIX Manta W+ MPO Polarity Verification Module P/N MPO-VERIFIER



- Supports 12/24/48-fiber and 16/32-fiber MPO, both male and female types, MM and SM
- Non-contact scan (MPO fibers and pins remain intact)
- Automated test and analysis

SMART CHECKERMPO Polarity & Continuity Tester

P/N AFT-FC-MPO-02



- Tests 8 and 12 MPO unpinned assemblies for Method A, B and C polarity in 1 sec
- 5 hour battery makes this ideal for bench top and field applications
- Kit options available for checking 24F MPO, MPO cassette modules and MPO loop back assemblies for polarity verification of installed MPO based link

Smart Probe WIFI Inspection Scope

P/N SCK-VM3000-01





- Visual Inspect of the individual fibers in the array in the field and labs setting for contamination and surface defects
- WIFI interconnects to iOS and Android compatible devices and USB connector to Windows OS devices
- Inspection tips available for MPO and Senko's MT based IP Series connector systems

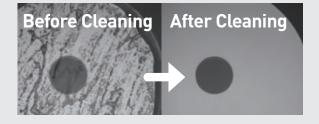
End Face Cleaning Click Style Cleaners

Senko's Optical Connector Lineup creates reliability in telecommunications service

The cause of numerous problems in optical communication equipment is contamination of the end face of optical connectors. Senko has developed optical fiber cleaners with fiber specifically for optical connectors to help create a reliable telecommunications service. Senko's optical connector cleaners eliminate even the smallest contaminants that are visible only through magnification.

Why is cleaning optical connectors so important?

Contamination of the optical connector end face can easily occur. The transmission quality will be affected once the contaminants adhere to the 10µm diameter optical fiber core, and there is increased danger that the fiber end face will be damaged by any high powered light. Cleaning the optical connector end face is extremely important before making a connection.



Smart Cleaner MPO Series

P/N SCK-SS-MPO & SCK-SS-MPO-02

The Smart Cleaner is a dry cloth cleaner specifically designed to clean connections residing in an adapter, faceplate or bulkhead.



- · Cleans 600 end faces
- · Cleans in adapter and unmated MPO endfaces
- Centered key tip for 12, 24 and 48 MPO and offset key for 16 and 32 MPO

OPTRESGel Pad Cleaner

P/N SCK-PT-MPO-01



- Uses zero residue gel trapping surface dust
- · Simple tough and go cleaning process
- · Can be use for cleaning lensed array ferrules

End Face Cleaning Cassette Cleaners & Gel Pads

Smart Cleaner Cassette Series

P/N SCK-CC-100 & SCK-CC-200



- Economy cassette for cleaning up to 400 MPO end faces
- Manual advance cleaning ribbon and compact housing for good ergonomics in the operator's hand
- SCK-CC-100 for unpinned MPO and single fiber end faces
- SCK-CC-200 modified window for cleaning 12 and 16 pinned MPO end faces

OPTIPOP RCassette Series

P/N CRE-01, CRE-03 + CRC-RS-0



- · 400 cleanings per cassette and refillable
- CRE-01 for unpinned MPO and singe fiber end faces
- CRE-03 modified window for cleaning 12 and 16 pinned MPO end faces
- · CRC-RS-01 refill six packs



MPO^{PLUS}° Removal Tool



Removes outer housing for gender change and ferrule cleaning

MPO^{PLUS}° Gender Changeable Tool



MPO-PLUS* Loopback

- Available for 12ch & 24ch Standard and QSFP applications
- Solid body
- MPO Attenuator loopback also available

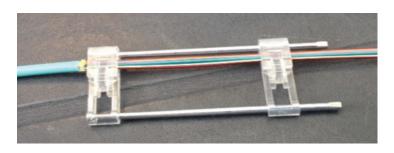
MPO^{PLUS}° Ribbon stripper



MPO^{PLUS}° Quality Master Jumper



MPO Ribbonizer



MPOPLUS® Standard Connector Kit with Ferrule

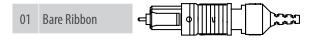


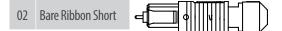
4F ~ 24F TYPE	GENI	DER/PIN	FERF	RULE TYPE	FIBE	R COUNT	НО	JSING COLOR	B00	OT/CABLE	
702F	F	Female	SS	SM Standard	04	4F	Υ	SM Low Loss Yellow	01	Bare Ribbon Fiber	Bare Ribbon Boot
	M	Male	SL	SM Super Low Loss	08	8F	G	SM Green	02	Date NIDDOII FIDEI	Bare Ribbon Short Boot
			MS	MM Standard	12	12F	V	MM OM4 Heather Violet	11	Flat Ribbon Cable	Flat Ribbon Cable Boot
			ML	MM Super Low Loss	24	24F	Α	MM OM3 Aqua	21	2.0mm Round	2.0mm Boot with Crimp
							T	MM Beige	22	2.011111 NOUTIU	2.0mm Boot without Crimp
							В	MM Black	31 32	3.0mm Round	3.0mm Boot 3.0mm Flex Angle Boot
									41	3.6mm Round	3.6mm Boot
									42	5.0IIIII Nouliu	3.6mm Flex Angle Boot
									51		4.5mm Round Boot
									52	Other Round	5.0mm Round Boot
									53		5.5mm Round Boot
N 1 1 6	- 702F - F - MS12 - A31 ORDER CODE example MPO Female MM Standard 12F Aqua 3mm Boot										

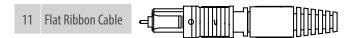
Note: 1. Custom configurations available upon request.

- 2. MPO-HD push pull tab option sold separately.
- 3. Please visit Senko.com/mposelect for other combinations.
- 4. 3.8mm and 4.0mm boot option available.





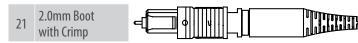


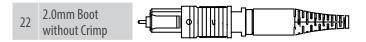






2.0mm Round Boots

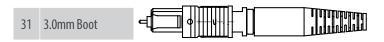








3.0mm Round Boots

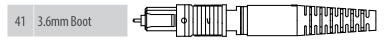


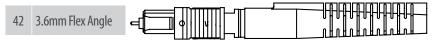






3.6mm Round Boots

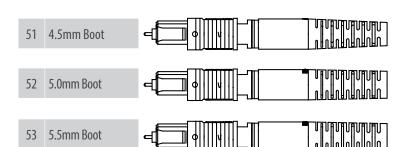








4.5/5.0/5.5 Round







MPOPLUS®

Mini Connector



MPO MINI	GEN	DER/PIN	FERE	RULE TYPE	FIBE	R COUNT	HOUSING COLOR		BOOT/CABLE		
703F	G	Female	SS	SM Standard	04	4F	Υ	SM Low Loss Yellow	00	Bare Ribbon Fiber	Bare Ribbon No Boot
		Gender Changeable	SL	SM Super Low Loss	08	8F	G	SM Green	01	Date Kibboli i ibei	Bare Ribbon Boot
1			MS	MM Standard	12	12F	V	MM OM4 Heather Violet	21	2 Omm Dound	2.0mm Boot without Crimp
			ML	MM Super Low Loss	24	24F	Α	MM OM3 Aqua	22	2.0mm Round	2.0mm Boot with Crimp
							В	MM Black	32		3.0mm Flex Angle Boot
									A1 3.0mm Round	3.0mm Round	3.0mm Boot (GR Metal Back Post)
											3.0mm Short Boot
									42	42 3 Craws Downd	3.6mm Flex Angle Boot
									46	3.6mm Round	3.6mm Short Boot
									51		4.5mm Round Boot
									52	Other Round	5.0mm Round Boot
									53		5.5mm Round Boot
								703F	- G	- SS12 - G33 ORI	DER CODE example O Mini Male SM Standard 12F Green 3.0mm Bo

Note: 1. Custom configurations available upon request.

- 2. Gender changeable pins sold separately. Two pins required for one MPO connector. See P.51 for details.
- 3. MPO-HD push pull tab option sold separately.
- 4. Please visit Senko.com/mposelect for other combinations.
- 5. 3.8mm and 4.0mm boot option available.

MPO^{PLUS®} Pu

Push Pull Tab



ТҮРЕ			
703-HDPP-34-W	MPO Plus Mini Push Pull Tab 34mm White		
703-HDPP-50-W	MPO Plus Mini Push Pull Tab 50mm White		
703-HDPP-64-W	MPO Plus Mini Push Pull Tab 64mm White		
		703-HDPP-50-W	ORDER CODE example

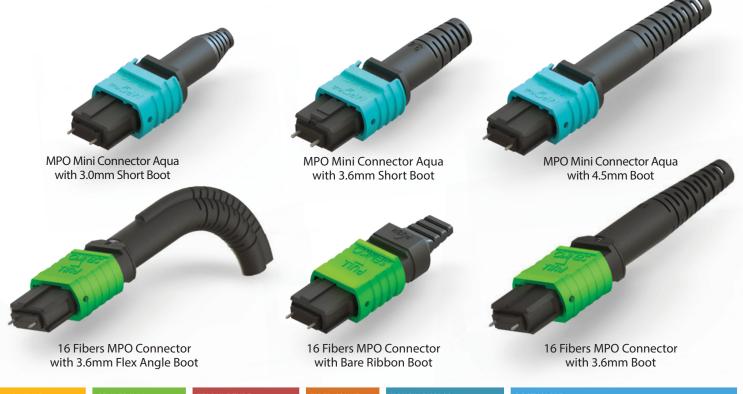
Note: 1. Gender Changeable Tool available - see P.51 for details.

2. Push Pull tab can be used for the MPO Plus Premium Mini 12/24F Connector.

Ribbon Boots 00 Bare Ribbon No Boot 01 Bare Ribbon Short 2.0mm Round Boots 2.0mm Boot without Crimp 2.0mm Boot with crimp 3.0mm Round Boots 32 3.0mm Flex Angle 3.0mm Boot (GR Metal Back Post) 33 3.0mm Short 3.6mm Round Boots 42 3.6mm Flex Angle 46 3.6mm Short 4.5/5.0/5.5 Round 51 4.5mm Boot 52 5.0mm Boot

53 5.5mm Boot

MPOPLUS® 16/32F Standard and Premium Mini Connector



16/32TYPE	GENDER/PIN	FERRULE TYPE	FIBER COUNT	HOUSING COLOR	BOOT/CABLE					
712F Premium	F Female	SS SM Standard	04 4F	Y SM Low Loss Yellow	01 Bare Ribbon Fiber Bare Ribbon Boot					
713F Mini	M Male	SL SM Super Low Loss	08 8F	G SM Green	02 Bare Ribbon Short Boot					
		MS MM Standard	12 12F	V MM 0M4 Heather Violet	3.0mm Boot					
		ML MM Super Low Loss	24 24F	A MM OM3 Aqua	A1 3.0mm Boot (GR Metal Back Post)					
				T MM Beige	3.0mm Boot 3.0mm Flex Angle Boot					
				B MM Black	33 3.0mm Short Boot					
					41 3.6mm Boot					
					42 3.6mm Boot 3.6mm Flex Angle Boot					
					46 3.6mm Short Boot					
					51 4.5mm Round Boot					
					52 Other Round 5.0mm Round Boot					
					5.5mm Round Boot					
N 1 6 1	712F - F - MS12 - A31 ORDER CODE example MPO Female MM Standard 12F Aqua 3.6mm Boot									

Note: 1. Custom configurations available upon request.

- 2. MPO-HD push pull tab option sold separately.
- 3. Please visit Senko.com/mposelect for other combinations.
- 4. 3.8mm and 4.0mm boot option available.

MPO^{PLUS®} Latch Connector



MPO Latch Connector with 3.0mm Short Boot



MPO Latch Connector with Bare Ribbon Boot



MPO Latch Connector with Flex Angle Boot

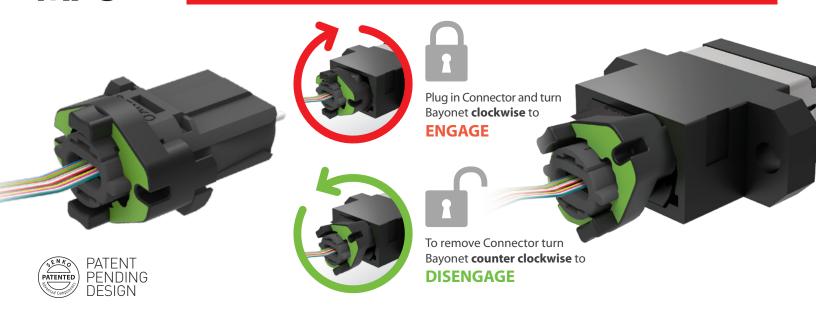
MPO LATCH	GEN	DER/PIN	FERF	RULETYPE	FIBE	R COUNT	НС	USING COLOR		B00	OT/CABLE	
704F	F	Female	SS	SM Standard	04	4F	В	MM Black		00	Bare Ribbon Fiber	Bare Ribbon "No" Boot
1	M	Male	SL	SM Super Low Loss	08	8F	1			01	Date KIDDOH FIDEI	Bare Ribbon Boot
	G	Female	MS	MM Standard	12	12F				21	2 One we Down d	2.0mm Boot without Crimp
		Gender Changeable	ML	MM Super Low Loss	24	24F				22	2.0mm Round	2.0mm Boot with Crimp
		(pin sold separately)								32	3.0mm Round	3.0mm Flex Angle Boot
										33	5.0IIIII Koulia	3.0mm Short Boot
										41		3.6mm Boot
										42	42 3.6mm Round	3.6mm Flex Angle Boot
										46		3.6mm Short Boot
										51		4.5mm Boot
										52	Other Boot	5.0mm Boot
										53		5.5mm Boot
									→ 704F		- SS12 - B32 OR	RDER CODE example O Latch Male SM Standard 12F Black 3.0mm Flex Angle Boo

Note: 1. Custom configurations available upon request.

- 2. Gender changeable pins sold separately. Two pins required for one MPO connector.
- 3. Please visit *Senko.com/mposelect* for other combinations.
- 4. 3.8mm and 4.0mm boot option available

MPO^{PLUS®}

Bayonet Connector

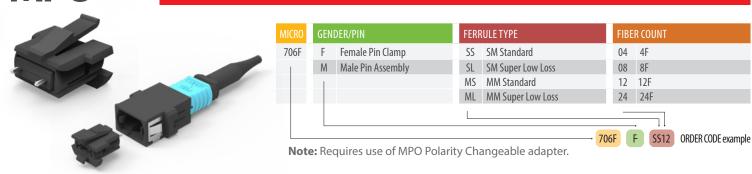


BAYONET	GENDER/PIN	FERRULE TYPE	FIBER COUNT	HOUSING COLOR	BOOT/CABLE
705F	F Female	SS SM Standard	04 4F	Y SM Low Loss Yellow	00 No Boot
	M Male	SL SM Super Low Loss	08 8F	G SM Green	
		MS MM Standard	12 12F	V MM OM4 Heather Violet	
		ML MM Super Low Loss		A MM OM3 Aqua	
				T MM Beige	
				B MM Black	
BAYONET	GENDER/PIN	FERRULE TYPE	FIBER COUNT	HOUSING COLOR	BOOT/CABLE
715E	F Female	SI SM Super Low Loss	16 16F	V SM Low Loss Vallow	00 No Boot

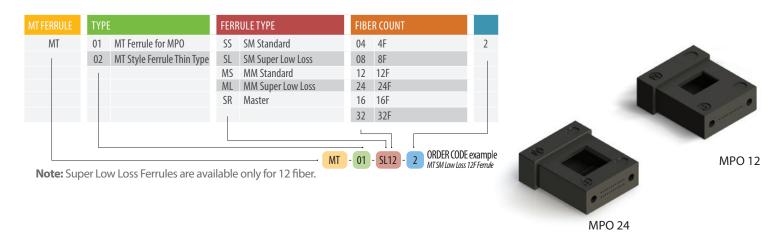
BAYONET	GENDER/PIN	FERRULE TYPE	FIBER COUNT	HOUSING COLOR	BOOT/CABLE		
715F	F Female	SL SM Super Low Loss	16 16F	Y SM Low Loss Yellow	00 No Boot		
	M Male	MS MM Standard	32 32F	G SM Green			
				V MM OM4 Heather Violet			
				A MM OM3 Aqua			
				T MM Beige			
				B MM Black			
				M Lime Green			
				715E - M -	CC12 - GOO ORDER CODE evample		

715F - M - SS12 - G00 ORDER CODE example

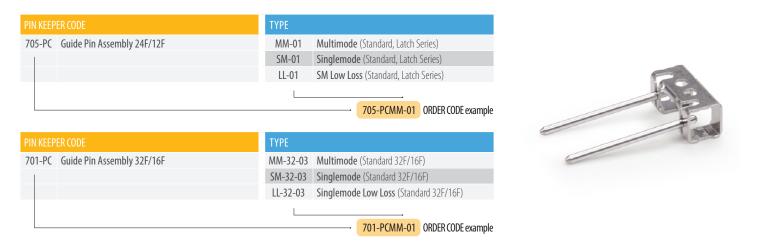
MPOPLUS® Micro Latch Connector



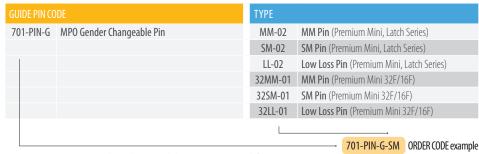
MPO^{PLUS®} MT Ferrule



MPO^{PLUS®} Guide Pin



MPO+LUS® Gender Changeable Pin



Note: 1. Two Gender Changeable pins required for one MPO

 Gender changeable pins can be used with Gender Changeable Female pin keeper for MPO-Plus Premium Mini and MPO-Plus Latch connectors.



Polarity Changeable Adapter







ADAPTER FLANGE		ADAPTER COLOR			
773	Flange (Standard Flange)	1	Black		
774	No Flange (Reduced Flange)	2	OM3 Aqua		
7W3	MPO 16/32F, Standard Flange	3	OM4 Heather Violet		
7W4	MPO 16/32F, No Flange	K	Gray Aligned Key		
		L			
			773 - 1 ORDER CODE example		

Note: 1. Polarity changeable feature recommended for non-angled ferrules only.

- 2. RMT-609 tool required for polarity change.
- 3. Latch and Micro Latch MPO compatible

Metal Adapter



ADAPTER FLANGE		ADAPTER COLOR			SHUTTER		
7M7	Flange (Standard Flange)	1	Regular Key	None	No Shutter		
7M8	No Flange (Reduced Flange)	K	Aligned Key	Α	Inner Shutter		
		L			A ORDER CODE example		

Features

- · One-piece design
- Flange and Non-Flanged Types
- Superior shielding effectiveness
- Protects against dust, provides eye safety and reduces EMI when no connector is installed

SC Footprint Adapter



MPO Adapter SC Footprint with Flange

Flange (Standard Flange) 776 No Flange (Reduced Flange) 7W5 MPO 16/32F, Standard Flange 7W6 MPO 16/32F, No Flange

Black 2 OM3 Aqua **OM4 Heather Violet Gray Aligned Key**

None No Shutter A Inner Shutter

Note: **External shutter sold separately - part number 775-OSHU-01.

ORDER CODE example

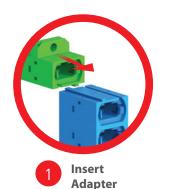
MPO Adapter **SC Footprint**



Features

- One-piece design
- Flange and Non-Flanged Types
- Regular and Reversed Key Options
- **SC** Footprint
- External and Internal shutter option

MPO+LUS® 90° Stackable Adapter





Adapter





Top Adapter Simplex



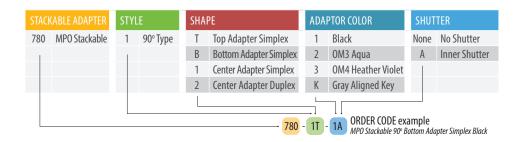
Center Adapter Duplex



Center Adapter Simplex



Bottom Adapter Simplex



45° Stackable Adapter

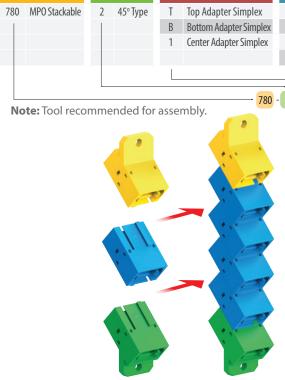
3

ADAPTOR COLOR

Black

OM3 Aqua

OM4 Heather Violet Gray Aligned Key



SHAPE

780 - 2T - 1A ORDER CODE example
MPO Stackable 45° Bottom Adapter Simplex Black Use the 45° angled flange to create a staggered array to assist with fiber management in densely populated panels.

None No Shutter

Inner Shutter





Top Adapter Simplex

PATENT



Center Adapter Duplex



Bottom Adapter Simplex

MPO^{PLUS®} One Piece Adapter



MPO One Piece Adapter No Flange

MPO One Piece Adapter with Flange No Shutter



ADAPTER FLANGE		ADAPTER COLOR		SHUTTER		
7W7	MPO 16/32F, Standard Flange	1	Black	None	No Shutter	
7W8	MPO 16/32F, No Flange	2	OM3 Aqua	Α	Inner Shutter	
		3	OM4 Heather Violet			
		K	Gray Aligned Key			
		K1	Black Aligned Key			
		K2	Aqua Aligned Key			
				777	- 1 ORDER CODE example	

Note: Other adapter colors are available (*Blue, Green, Beige*).

Features

- · One-piece design
- Flange and Non-Flanged Types
- Regular and Reversed Key Options

Tools



RBN-601 MPO Plus Ribbonizer Tool RBN-601 ORDER CODE example



RMT-603 MPO Plus Disassemble Tool RMT-603 ORDER CODE example



RMT-604 Gender Changeable Pin Assembly/Removal Tool

RMT-604 ORDER CODE example

MPOPLUS® Crimp Tool



TYPE			
CRT-605	Crimp Tool for MPO Plus Connector (Oval)		
CRT-606	Crimp Tool for MPO Plus 3.0 - 5.5mm round crimp (for thick jacket crimp)		
CRT-607	Crimp Tool for MPO Plus 3.0 - 5.5mm round crimp		
		CRT-607	ORDER CODE example

MPO^{PLUS®}

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