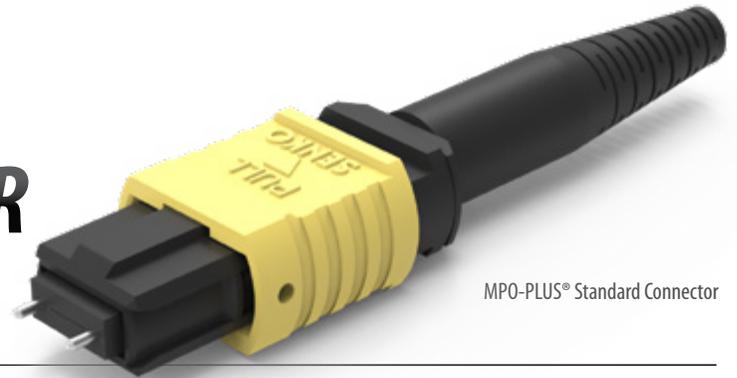


## **MPO-PLUS**<sup>®</sup> **STANDARD CONNECTOR** **702 and 712 Series**



MPO-PLUS<sup>®</sup> Standard Connector

Transform your network infrastructure with the SENKO's MPO-PLUS<sup>®</sup> solution, a cutting-edge optical fiber connectivity system tailored for the dynamic demands of data centers, telecommunications, and high-speed applications. Embrace unparalleled efficiency with SENKO's high-density MPO-PLUS<sup>®</sup> connectors, capable of integrating up to 32 fibers in a single, space-saving housing. Benefit from low insertion loss for superior signal integrity, complemented by both single-mode and multimode options to cover every application requirement.

Backed by rigorous testing and quality assurance, SENKO guarantees reliability and excellence, making it the perfect choice for future-proofing your optical connectivity and propelling your network into the next generation.

### FEATURES

- Lowest insertion loss on the market
- High Density and compact size
- 12/24 Fiber center key
- 16/32 Fiber Offset key
- Multiple variants available for your application needs
- Removeable free floating ferrule

### APPLICATIONS

- Artificial intelligence (AI)
- Data center
- FTTx
- Cloud computing
- Broadcasting
- Medical imaging
- High Performance Computing (HPC)

### KEY BENEFITS

- ✓ **Lowest Insertion loss on the market**
- ✓ **Durability**
- ✓ **Easy installation bayonet mechanism**
- ✓ **Precision metal guide pins**
- ✓ **Improved spring design**

## Mechanical Data

	Value
Durability	500 matings per TIA-568.3
Fiber Count	Up to 32 fibers
Cable Suitability	2.0 mm - 5.5 mm round or bare / jacketed ribbon fiber

## Optical Data

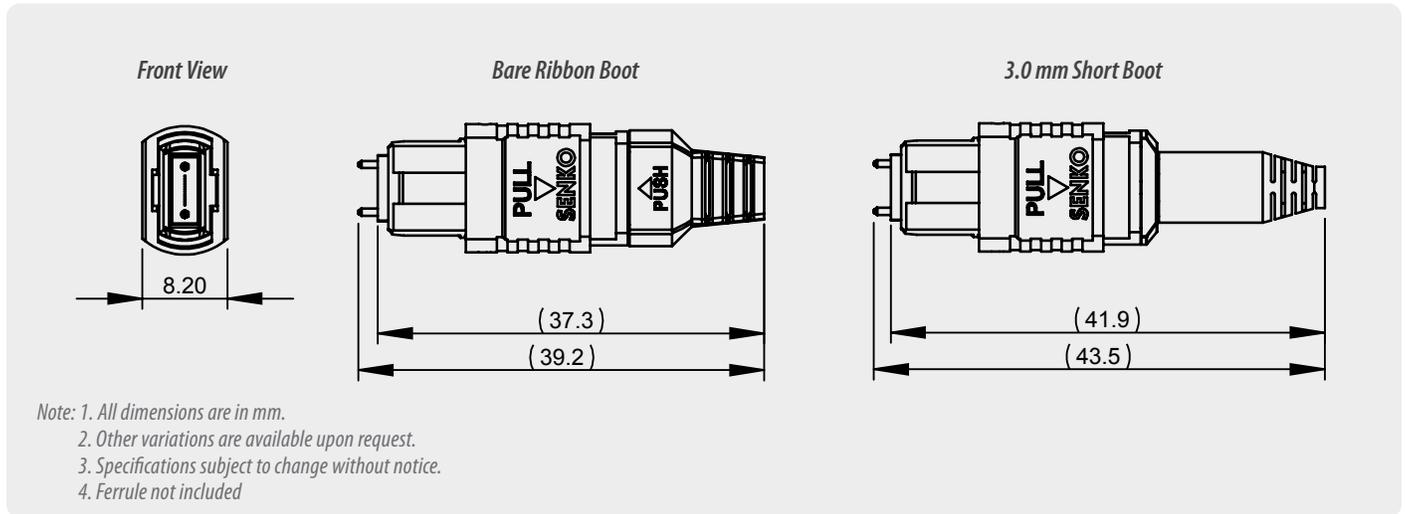
	Singlemode		Multimode	
	APC		MM	
	Low Loss	Standard	Low Loss	Standard
Typical Insertion Loss (dB)* 12-fiber	0.10	0.20	0.08	0.10
Max. Insertion Loss (dB)* 12-fiber	0.25	0.70	0.25	0.50
Typical Insertion Loss (dB)* 24-fiber	0.15	0.25	0.15	0.20
Max. Insertion Loss (dB)* 24-fiber	0.35	1.00	0.35	0.50
Typical Insertion Loss (dB)* 16-fiber	0.15	N/A	0.15	0.20
Max. Insertion Loss (dB)* 16-fiber	0.35	N/A	0.35	0.60
Typical Insertion Loss (dB)* 32-fiber	N/A	N/A	N/A	0.25
Max. Insertion Loss (dB)* 32-fiber	N/A	N/A	N/A	0.60
Typical Return Loss (dB)*	≥60		≥25	

\* Based on master grade jumper to low loss random mating test

## Environmental Data

	Value
Operating Temperature	-40°C to +75°C
RoHS Compliance	Yes
REACH Compliance	Yes

Connector Drawing - 702 Series



ORDERING

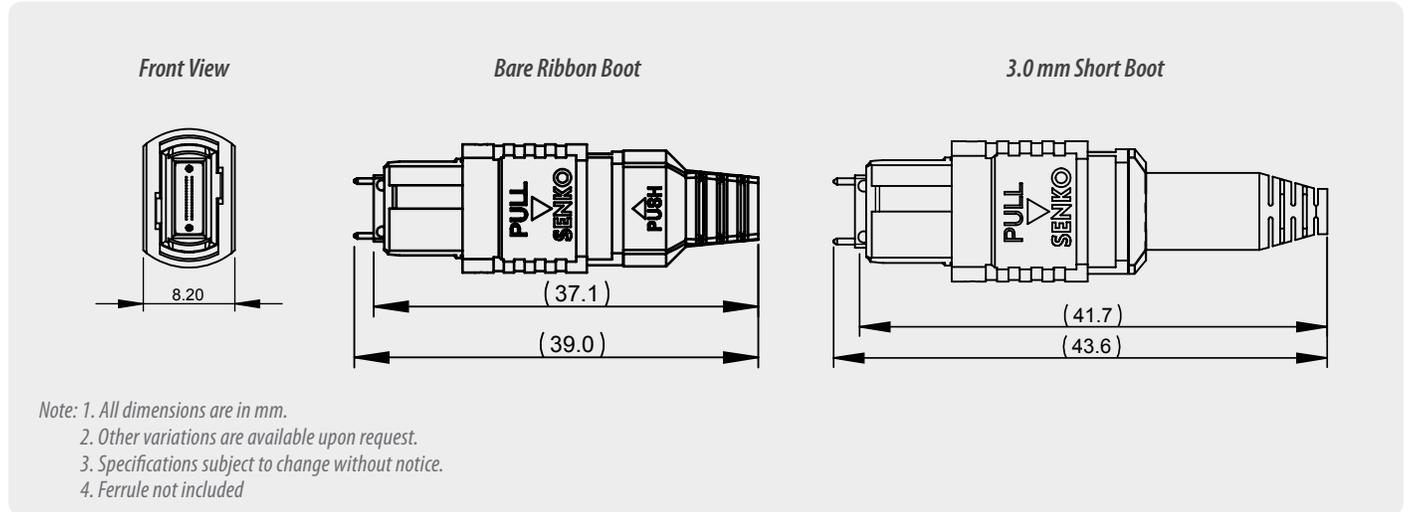
CONNECTOR	GENDER/PIN	FERRULE TYPE	FIBER COUNT	HOUSING COLOR	BOOT/CABLE	BOOT LENGTH
702F MPO-PLUS <sup>®</sup> Standard Connector 12F/24F with MT Ferrule	F Female	SS SM Standard	04 4F	Y SM Low Loss Yellow	01 Bare Ribbon Fiber Bare Ribbon Boot	13mm
		SL SM Low Loss	08 8F	G APC Green	02 Bare Ribbon Fiber Bare Ribbon Short Boot	6mm
	M Male	MS MM Standard	12 12F	V MM OM4 Heather Violet	11 Flat Ribbon Cable Flat Ribbon Cable Boot	21mm
		ML MM Low Loss	24 24F	A MM OM3 Aqua	21 2.0mm Round 2.0mm Boot with Crimp	27mm
				T MM Beige	22 2.0mm Round 2.0mm Boot without Crimp	23mm
				B MM Black	31 3.0mm Round 3.0mm Boot	23mm
				M MM OM5 Lime Green	32 3.0mm Round 3.0mm Flex Angle Boot	43.9mm
					41 3.6mm Round 3.6mm Boot	16mm
					42 3.6mm Round 3.6mm Flex Angle Boot	31mm
					46 3.6mm Round 3.6mm Short Boot	43.9mm
					51 4.5mm Round Boot	31mm
					52 Other Round 5.0mm Round Boot	31mm
					53 5.5mm Round Boot	31mm

702F - F - MS12 - A31 ORDER CODE example

- Note: 1. Custom configurations available upon request.
- 2. Please visit [Senko.com/mposelect](http://Senko.com/mposelect) for other combinations.
- 3. 3.8mm and 4.0mm boot option available.



Connector Drawing - 712 Series



ORDERING

CONNECTOR		GENDER/PIN		FERRULE TYPE		FIBER COUNT		HOUSING COLOR		BOOT/CABLE		BOOT LENGTH	
712F	MPO-PLUS <sup>®</sup> Standard Connector 16F/32F with MT Ferrule	F	Female	SS	SM Standard	16	16F	Y	SM Low Loss Yellow	01	Bare Ribbon Fiber	Bare Ribbon Boot	13mm
		M	Male	SL	SM Low Loss	32	32F	G	APC Green	02		Bare Ribbon Short Boot	6mm
				MS	MM Standard			V	MM OM4 Heather Violet	31	3.0mm Round	3.0mm Boot	27mm
				ML	MM Low Loss			A	MM OM3 Aqua	32		3.0mm Flex Angle Boot	43.9mm
						T	MM Beige	33		3.0mm Short Boot	16mm		
						B	MM Black	41	3.6mm Round	3.6mm Boot	31mm		
						M	MM OM5 Lime Green	42		3.6mm Flex Angle Boot	31mm		
								46		3.6mm Short Boot	12.5mm		
								51	Other Round	4.5mm Round Boot	31mm		
								52		5.0mm Round Boot	31mm		
								53		5.5mm Round Boot	31mm		

702F - F - MS12 - A31 ORDER CODE example

- Note: 1. Custom configurations available upon request.  
 2. Please visit [Senko.com/mPOSElect](http://Senko.com/mPOSElect) for other combinations.  
 3. 3.8mm and 4.0mm boot option available.



**MPO-PLUS® STANDARD CONNECTOR**

## Accessories

MPO-PLUS® CONNECTOR DATA SHEET

**Accessories****MPO-PLUS®****Removal Tool**

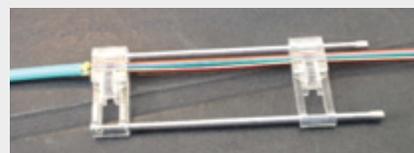
PN: RMT-603



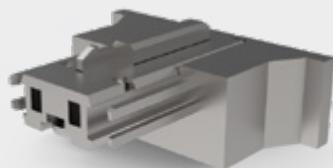
- Removes Outer housing for gender change and ferrule cleaning

**MPO-PLUS®****Ribbon Stripper****MPO-PLUS®****Loopback****MPO-PLUS®****Ribbonizer**

PN: RBN-601

**MPO-PLUS®****Polarity Changeable Adapter Extraction Tool**

PN: RMT-609

**MPO-PLUS®****Quality Master Jumper****Accessories - Cleaning****Smart Cleaner<sup>+</sup>**

PN: SCK-SS-MPO (12/24F Center Key Connectors)  
 PN: SCK-SS-MPO-02 (16/32F Offset Key Connectors)

**MPO-PLUS®****OPTRES Gel Cleaner**

PN: SCK-PT-MPO-01



## Accessories - Interferometry

### SUMIX Manta W+ Inspection Scope

PN: SMX-Manta-W+



- Inspects 12 fiber in 2.6 seconds, 24 fiber in 4.5 seconds
- 0.5µm defect detection
- Inspection tips for MPO, CS, SN, LC available

### SUMIX Max QM+ Inspection Scope

PN: MAX-Quantum



- Inspects 12 fiber in 2.6 seconds, 24 fiber in 4.5 seconds
- 0.5µm defect detection

### SMX Manta W+ MPO Polarity and Continuity Module

PN: MPO Verifier



- Works for 8, 12, 24, 48 and 16, 32 fiber MPO
- Auto test and analysis

### SMX Manta W+ Benchtop Holder

PN: MNT-W-Stand



# SENKO<sup>®</sup>

Advanced Components

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[senko.com/contact](https://senko.com/contact)