

# MPO STANDARD CONNECTOR

## Quantum Networking



SUN CONEC's MPO fiber connectors deliver high-density, reliable performance for 40G/100G and beyond networks. With years of expertise in multi-fiber connectivity, our MPO solutions support both single-mode and multimode applications in compact, space-saving designs.

Each connector is manufactured and 100% tested in strict compliance with IEC 3D standards, ensuring low insertion loss and consistent signal integrity. Engineered for data centers and telecom environments, SUN CONEC MPO connectors provide a future-ready foundation for high-speed optical infrastructure.

### 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)
- Cloud computing
- Data center
- FTTX networks
- 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

## 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

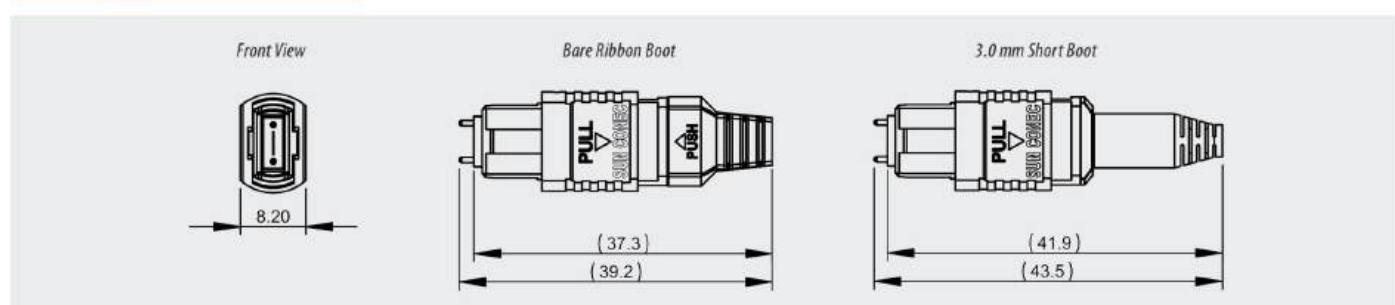
## Mechanical Data

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

## Environmental Data

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

## Connector Drawing



Note: 1. All dimensions are in mm.

2. Other variations are available upon request.
3. Specifications subject to change without notice.
4. Ferrule not included.