

# MFO100A series

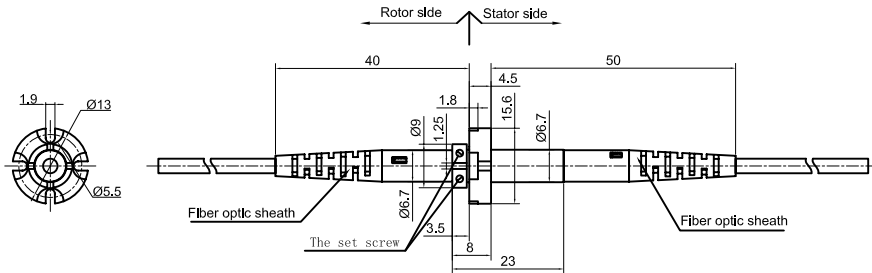
## 1 Channel (FORJ)Fiber Optic Slip Rings

MFO100A fiber optic slip ring support 1 channel fiber optic(SM/MM). It can perfectly transmit data on 360° rotating. It is also especially suitable for occasion where it needs to transmit large volume data/signal from permanent position to rotation position under unlimited, continuous or discontinuous rotating, which can improve mechanical property, simplify system operation and avoid the rotating of turning joints destroying fiber optics.



### Features :

- Low insertion loss, high rotation speed
- Non-contact, zero friction, long working life, single core can achieve one hundred million revolution
- Small size, light weight, high sealing class
- Fiber optic transmitting signal, no leaks , no electromagnetic interference, long-distance



### Part # Explanation

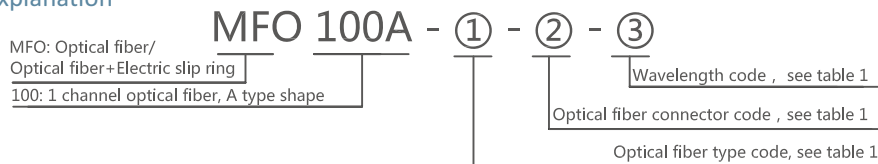


Table 1

Fiber Type Code	Fiber Connector Code	Wavelength Code
01 : 9/125um , Single-mode	FC : FC Connector ST : ST Connector	01 : 1310/1550(Single-mode)
02 : 50/125um , Multiple-mode	SC : SC Connector LC : LC Connector	02 : 850/1310(Multiple-mode)
03 : 62.5/125m , Multiple-mode	The connector face is PC by default ,if APC is needed, APC shouldbe added behind APC, such asFC/APC	

### Specifications

Itmes	Type	Single-Mode	
		Single-Mode	Single-Mode
Wavewidth(nm)		±50	
Max Insert Loss , 23°C(db)		1.2	0.7
Insert Loss Ripple(db)		0.6	0.4
Return Loss(db)		≥55(No connector)	≥40(No connector)
Max Power(w)		0.5	
Weight(g)		50	
Max Rotating Speed(rpm)		1000	
Working Life		>5 billion turn	
Working Temperature(°C)		-45~85	
Storage Temperature(°C)		-50~85	
Protection Grade		IP54	

### Options for custom slip ring

Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① Cable exit way and cable length can be customized for both rotor and stator.
- ② Because of the structure limitation, length/height/OD can be customized on your request.
- ③ Support current or signal up to 200 rings.
- ④ Aviation plug, terminal and heat-shrink tube are optional.
- ⑤ Hybrid slip ring for Yaskawa/Panasonic/Siemens servo control signal, power line and encoder line.
- ⑥ Support mixed high speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc.)
- ⑦ Can combine temperature control signal with thermocouple signal.

- ⑧ Special environment can be customized, such as quakeproof, high temperature.
  - ⑨ Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
  - ⑩ Optical fiber connector, optical fiber type and fiber pigtail length can be customized.
  - ⑪ Optic fiber channels can be customized.
  - ⑫ Optic fiber wavelength can be customized.
  - ⑬ Maximum current can up to 5000 amperes.
  - ⑭ Military grade.
  - ⑮ Optional for underwater IP65, IP54.
  - ⑯ Optional for stainless steel housing.
- Technical support: technical@moflon.com