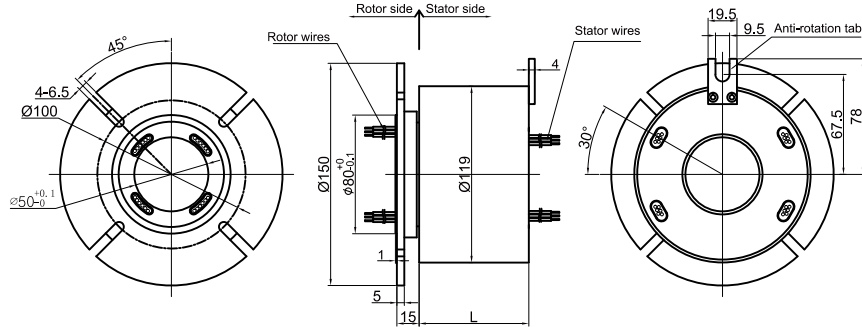
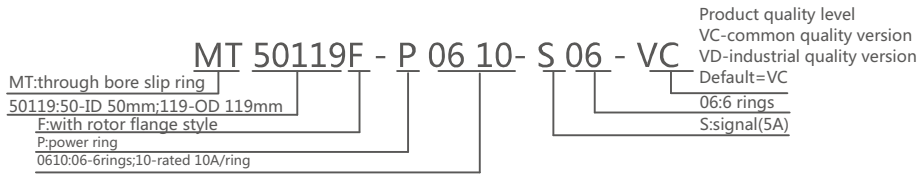


# MT50119F Series

MT50119F series provides a 50mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 119mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications. MT50119F series are standard, off-the-shelf products, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.



## Part# Explanation



## Part# List

MT50119F Series Parts# List							
Part#	10A	Signal or 5A	Length-L (mm)	Part#	10A	Signal or 5A	Length-L (mm)
MT50119F-S02	0	2	36	MT50119F-S36	0	36	165.2
MT50119F-P0210	2	0	36	MT50119F-P0610-S30	6	30	165.2
MT50119F-S03	0	3	39.8	MT50119F-P1210-S24	12	24	165.2
MT50119F-P0310	3	0	39.8	MT50119F-P3610	36	0	165.2
MT50119F-S06	0	6	51.2	MT50119F-S42	0	42	192
MT50119F-P0210-S04	2	4	51.2	MT50119F-P0610-S36	6	36	192
MT50119F-P0410-S02	4	2	51.2	MT50119F-P1210-S30	12	30	192
MT50119F-P0610	6	0	51.2	MT50119F-S48	0	48	214.8
MT50119F-S12	0	12	74	MT50119F-P0610-S42	6	42	214.8
MT50119F-P0210-S10	2	10	74	MT50119F-P0910-S39	9	39	214.8
MT50119F-P0310-S09	3	9	74	MT50119F-P1210-S36	12	36	214.8
MT50119F-P0610-S06	6	6	74	MT50119F-P1810-S30	18	30	214.8
MT50119F-P0810-S04	8	4	74	MT50119F-P2410-S24	24	24	214.8
MT50119F-P1010-S02	10	2	74	MT50119F-S60	0	60	260.4
MT50119F-P1210	12	0	74	MT50119F-P0610-S54	6	54	260.4
MT50119F-S18	0	18	96.8	MT50119F-P0910-S51	9	51	260.4
MT50119F-P0210-S16	2	16	96.8	MT50119F-P1210-S48	12	48	260.4
MT50119F-P0410-S14	4	14	96.8	MT50119F-S72	0	72	310
MT50119F-P0610-S12	6	12	96.8	MT50119F-P0610-S66	6	66	310
MT50119F-P0810-S10	8	10	96.8	MT50119F-P1210-S60	12	60	310
MT50119F-P1010-S08	10	8	96.8	MT50119F-P2410-S48	24	48	310
MT50119F-P1210-S06	12	6	96.8	MT50119F-P3610-S36	36	36	310
MT50119F-P1410-S04	14	4	96.8	MT50119F-S84	0	84	355.6
MT50119F-P1610-S02	16	2	96.8	MT50119F-P1210-S72	12	72	355.6
MT50119F-S24	0	24	119.6	MT50119F-P2410-S60	24	60	355.6
MT50119F-P0410-S20	4	20	119.6	MT50119F-P3610-S48	36	48	355.6
MT50119F-P0610-S18	6	18	119.6	MT50119F-S96	0	96	401.2
MT50119F-P1210-S12	12	12	119.6	MT50119F-P1210-S84	12	84	401.2
MT50119F-P1810-S06	18	6	119.6	MT50119F-P2410-S72	24	72	401.2
MT50119F-P2410	24	0	119.6	MT50119F-P3610-S60	36	60	401.2
MT50119F-S30	0	30	142.4	MT50119F-P4210-S54	42	54	401.2
MT50119F-P0610-S24	6	24	142.4	MT50119F-S108	0	108	450.8
MT50119F-P1210-S18	12	18	142.4	MT50119F-P1210-S96	12	96	450.8
MT50119F-P1810-S12	18	12	142.4	MT50119F-P2410-S84	24	84	450.8
MT50119F-P2410-S06	24	6	142.4	MT50119F-P3610-S72	36	72	450.8
MT50119F-P3010	30	0	142.4	MT50119F-P4810-S60	48	60	450.8

Note: N channels 10A rings parallel can be used as 1 channel N\*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A. 10A,5A (signal) can combine freely in any way.It can be customized based on standard slip ring,please contact customer service for more details.

## Specifications

Electrical Data			
Parameter	Value		Signal
	Power		
Rated Voltage	0~690VAC/VDC		0~440VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC		≥1000MΩ/500VDC
Lead Wires	AWG16#Teflon		AWG22#Teflon
Lead Length	Standard 300mm(adjustable)		
Insulation Strength	1000VAC@50Hz , 60s		
Electrical Noise	<0.01Ω		
Mechanical Data			
Parameter	Value		
Working Life	See Product Quality Level Table		
Rotating Speed	See Product Quality Level Table		
Working Temperature	-30°C~80°C		
Operating Humidity	0~85% RH		
Contact Material	See Product Quality Level Table		
Housing Material	Aluminium Alloy		
Torque	0.1N.m ; +0.03N.m/6rings		
Protection Grade	IP51		

## Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Contact Material
VC	250RPM	20 Million Revs	Precious Metal
VD	600RPM	80 Million Revs	Gold-plated
VH	1000RPM	150 Million Revs	Gold-Gold

## Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	RED	YEL	GRN	BLU	WHT	BLK	RED	YEL	GRN	BLU	WHT

(6 wires for 1 group color, from 7-12, repeat the same color as 1...6, indicated with number code pipe)

## 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, etc.
- ⑨ Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- ⑩ High temperature can up to 500 degrees.
- ⑪ High pressure can up to 110KV
- ⑫ Rotating speed can up to 10000RPM
- ⑬ Maximum current can up to 5000 amperes.
- ⑭ Military grade
- ⑮ Optional for underwater IP65, IP68.
- ⑯ Optional for stainless steel housing

Technical support: [technical@moflon.com](mailto:technical@moflon.com)