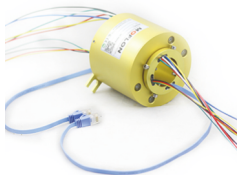
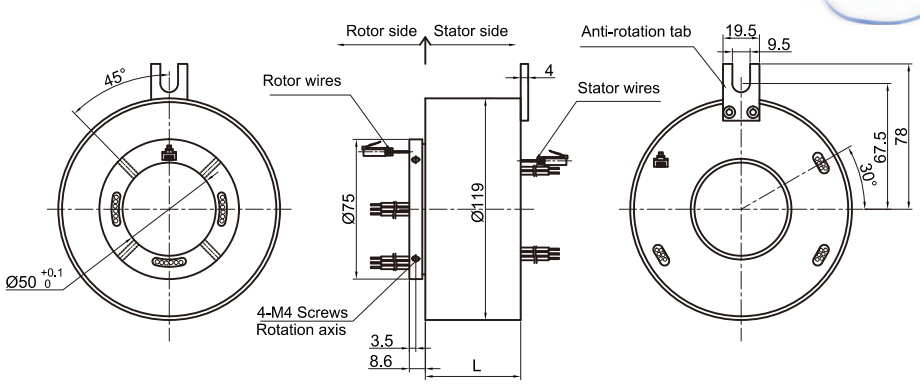
ME2501 100M/1000M Ethernet Slip Rings

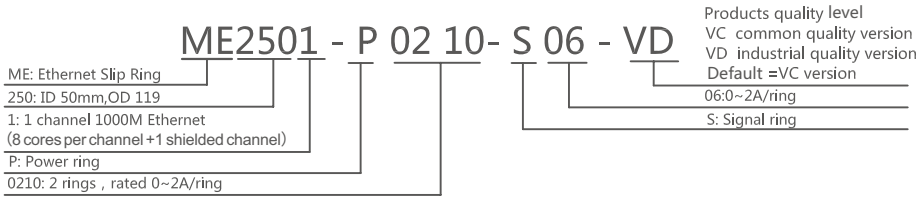
1 channel 1000M Ethernet+1~46 power and signal channel

ME2501,support 1 channel 1000M ethernet slip rings, with through bore size 50mm, overall diameter 119mm, are standard, off-the-shelf, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections.





Part# Explanation



Specifications

Ethernet Specification		
Parameter	Value	
1000M Ethernet	1 channel 1000M Ethernet	
Connector	RJ45	
Ber Error Rate	10E-11	
Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Lead Wires	AWG16#Teflon	AWG22#Teflon
Lead Length	Standard 300mm(adjustable)	
Dielectric Strength	500VAC@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℃~80℃	
Operating Humidity	0~85% RH	
Contact Material	See Product Quality Level Table	
Housing Material	Aluminium Alloy	
Torque	0.1N.m； +0.03N.m/6 rings	
Protection Grade	IP51	

Part# List

ME2501 Series Ethernet Slip Ring											
Part#	1000M Ethernet	10A	20A	Signal 5A	Length (mm)	Part#	1000M Ethernet	10A	20A	Signal 5A	Length (mm)
ME2501-S03	1	0	0	30	74	ME2501-P1010-S05	1	10	0	5	119.6
ME2501-P0310	1	3	0	0	74	ME2501-S21	1	0	0	21	142.4
ME2501-P0420	1	0	4	0	96.8	ME2501-P0410-S17	1	4	0	17	142.4
ME2501-S09	1	0	0	9	96.8	ME2501-P1010-S11	1	10	0	11	142.4
ME2501-P0210-S07	1	2	0	7	96.8	ME2501-P2110	1	21	0	0	142.4
ME2501-P0410-S05	1	4	0	5	96.8	ME2501-P0610-S21	1	6	0	21	169.2
ME2501-P0610-S03	1	6	0	3	96.8	ME2501-P0610-S33	1	6	0	33	217.4
ME2501-P0910	1	9	0	0	96.8	ME2501-P1210-S27	1	12	0	27	217.4
ME2501-S15	1	0	0	15	119.6	ME2501-S39	1	0	0	39	217.4
ME2501-P1510	1	15	0	0	119.6	ME2501-P0610-S40	1	6	0	40	263
ME2501-P0410-S11	1	4	0	11	119.6	ME2501-S46	1	0	0	46	263
ME2501-P0810-S06	1	8	0	7	119.6						

Note:

1) 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

2) According to your own needs, 10A, 20A and 5A can be combined freely. Please contact customer service if you need over 2 channels Ethernet.

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

Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	RED	YLW	GRN	BLU	WHT	BLK	RED	YLW	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 Bore diameter can be customized,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