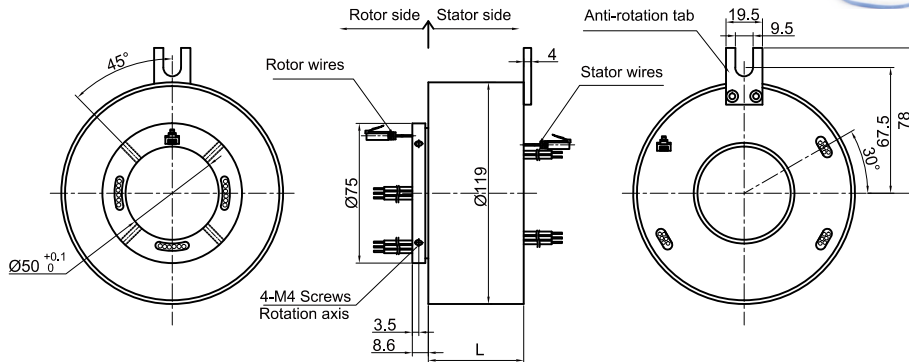


# ME2501 100M/1000M Ethernet Slip Rings

## 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	$\geq 1000\text{M}\Omega/500\text{VDC}$	$\geq 1000\text{M}\Omega/500\text{VDC}$
Lead Wires	AWG16#Teflon	AWG22#Teflon
Lead Length	Standard 300mm(adjustable)	
Dielectric Strength	500VAC@50Hz, 60s	
Electrical Noise	<0.01 $\Omega$	
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/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-S04	1	0	0	4	74	ME2501-P1010-S06	1	10	0	6	119.6
ME2501-P0410	1	4	0	0	74	ME2501-S22	1	0	0	22	142.4
ME2501-P0420	1	0	4	0	96.8	ME2501-P0410-S18	1	4	0	18	142.4
ME2501-S10	1	0	0	10	96.8	ME2501-P1010-S12	1	10	0	12	142.4
ME2501-P0210-S08	1	2	0	8	96.8	ME2501-P2210	1	22	0	0	142.4
ME2501-P0410-S06	1	4	0	6	96.8	ME2501-P0610-S22	1	6	0	22	169.2
ME2501-P0610-S04	1	6	0	4	96.8	ME2501-P0610-S34	1	6	0	34	217.4
ME2501-P1010	1	10	0	0	96.8	ME2501-P1210-S28	1	12	0	28	217.4
ME2501-S16	1	0	0	16	119.6	ME2501-S40	1	0	0	40	217.4
ME2501-P1610	1	16	0	0	119.6	ME2501-P0610-S40	1	6	0	40	263
ME2501-P0410-S12	1	4	0	12	119.6	ME2501-S46	1	0	0	46	263
ME2501-P0810-S08	1	8	0	8	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](mailto:technical@moflon.com)