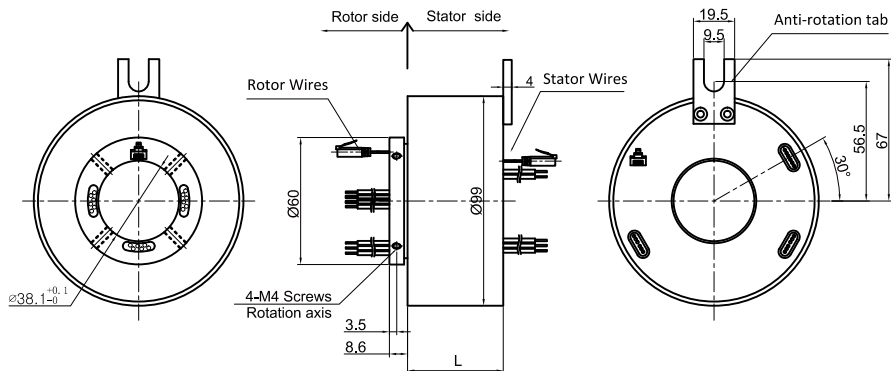
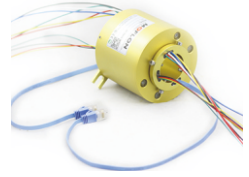


ME2381 100M/1000M Ethernet Slip Rings

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

ME2381, support 1 channel 1000M ethernet slip rings, with through bore size 38.1mm, overall diameter 99mm, are standard, off-the-shelf, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections.



Part# Explanation

| | | | | | | | | | | |
|---------------------------------|---|----------|-----------|-----------|---|----------|-----------|---|-----------|-------------------------------|
| ME2381 | - | P | 02 | 10 | - | S | 06 | - | VD | Products quality level |
| ME: Ethernet Slip Ring | | | | | | | | | | VC common quality version |
| 238: ID 38.1mmOD 99 | | | | | | | | | | VD industrial quality version |
| 1 : 1 Channel 1000M Ethernet | | | | | | | | | | Default =VC version |
| P: Power ring | | | | | | | | | | 06:0~2A/ring |
| 0210: 2 rings , rated 0~2A/ring | | | | | | | | | | S: Signal ring |

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°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

| ME2381 Series Ethernet Slip Ring | | | | | | | | | | | |
|----------------------------------|----------------|-----|-----|-----------|-------------|------------------|----------------|-----|-----|-----------|-------------|
| Part# | 1000M Ethernet | 10A | 20A | Signal 5A | Length (mm) | Part# | 1000M Ethernet | 10A | 20A | Signal 5A | Length (mm) |
| ME2381-S04 | 1 | 0 | 0 | 4 | 65.6 | ME2381-P0810-S08 | 1 | 8 | 0 | 8 | 106.4 |
| ME2381-P0410 | 1 | 4 | 0 | 0 | 65.6 | ME2381-P1010-S06 | 1 | 10 | 0 | 6 | 106.4 |
| ME2381-P0420 | 1 | 0 | 4 | 0 | 86 | ME2381-S22 | 1 | 0 | 0 | 22 | 126.8 |
| ME2381-S10 | 1 | 0 | 0 | 10 | 86 | ME2381-P0410-S18 | 1 | 4 | 0 | 18 | 126.8 |
| ME2381-P0210-S08 | 1 | 2 | 0 | 8 | 86 | ME2381-P2210 | 1 | 22 | 0 | 0 | 126.8 |
| ME2381-P0410-S06 | 1 | 4 | 0 | 6 | 86 | ME2381-S28 | 1 | 6 | 0 | 28 | 150.2 |
| ME2381-P0610-S04 | 1 | 6 | 0 | 4 | 86 | ME2381-P0610-S22 | 1 | 6 | 0 | 22 | 150.2 |
| ME2381-S16 | 1 | 0 | 0 | 16 | 106.4 | ME2381-P0610-S34 | 1 | 6 | 0 | 34 | 193.2 |
| ME2381-P1610 | 1 | 16 | 0 | 0 | 106.4 | ME2381-S40 | 1 | 0 | 0 | 40 | 193.2 |
| ME2381-P0410-S12 | 1 | 4 | 0 | 12 | 106.4 | ME2381-P0610-S40 | 1 | 6 | 0 | 40 | 234 |
| ME2381-P0610-S10 | 1 | 6 | 0 | 10 | 106.4 | ME2381-S46 | 1 | 0 | 0 | 46 | 234 |

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