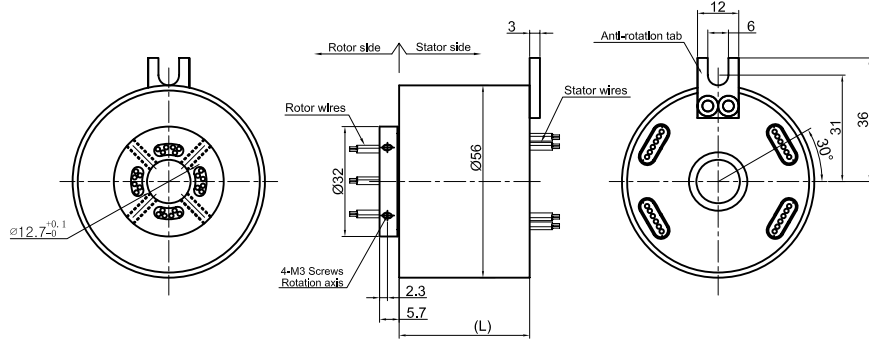
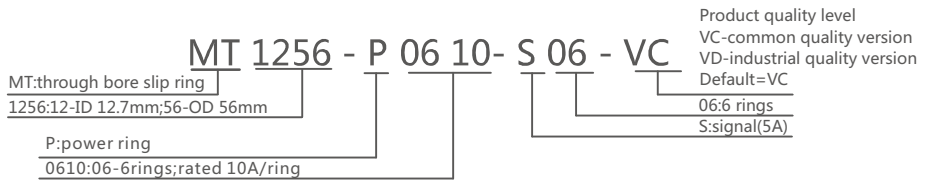


MT1256 Series

MT1256 series provides a 12.7mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 56mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications. MT1256 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

| MT1256 Series Parts# List | | | | | | | |
|---------------------------|-----|--------------|---------------|------------------|-----|--------------|---------------|
| Part# | 10A | Signal or 5A | Length-L (mm) | Part# | 10A | Signal or 5A | Length-L (mm) |
| MT1256-S02 | 0 | 2 | 26.8 | MT1256-P1010-S08 | 10 | 8 | 71.5 |
| MT1256-P0210 | 2 | 0 | 26.8 | MT1256-P1210-S06 | 12 | 6 | 71.5 |
| MT1256-S03 | 0 | 3 | 29.6 | MT1256-P1410-S04 | 14 | 4 | 71.5 |
| MT1256-P0310 | 3 | 0 | 29.6 | MT1256-P1610-S02 | 16 | 2 | 71.5 |
| MT1256-S06 | 0 | 6 | 38 | MT1256-S24 | 0 | 24 | 88.4 |
| MT1256-P0210-S04 | 2 | 4 | 38 | MT1256-P0410-S20 | 4 | 20 | 88.4 |
| MT1256-P0410-S02 | 4 | 2 | 38 | MT1256-P0610-S18 | 6 | 18 | 88.4 |
| MT1256-P0610 | 6 | 0 | 38 | MT1256-P1210-S12 | 12 | 12 | 88.4 |
| MT1256-S12 | 0 | 12 | 54.8 | MT1256-P1810-S06 | 18 | 6 | 88.4 |
| MT1256-P0210-S10 | 2 | 10 | 54.8 | MT1256-P2410 | 24 | 0 | 88.4 |
| MT1256-P0310-S09 | 3 | 9 | 54.8 | MT1256-S30 | 0 | 30 | 105.2 |
| MT1256-P0610-S06 | 6 | 6 | 54.8 | MT1256-P0210-S28 | 2 | 28 | 105.2 |
| MT1256-P0810-S04 | 8 | 4 | 54.8 | MT1256-P0410-S26 | 4 | 26 | 105.2 |
| MT1256-P1010-S02 | 10 | 2 | 54.8 | MT1256-P0610-S24 | 6 | 24 | 105.2 |
| MT1256-P1210 | 12 | 0 | 54.8 | MT1256-S36 | 0 | 36 | 125 |
| MT1256-S18 | 0 | 18 | 71.5 | MT1256-P0410-S32 | 4 | 32 | 125 |
| MT1256-P0210-S16 | 2 | 16 | 71.5 | MT1256-P0610-S30 | 6 | 30 | 125 |
| MT1256-P0410-S14 | 4 | 14 | 71.5 | MT1256-S42 | 0 | 42 | 141.8 |
| MT1256-P0610-S12 | 6 | 12 | 71.5 | MT1256-P0410-S38 | 4 | 38 | 141.8 |
| MT1256-P0810-S10 | 8 | 10 | 71.5 | MT1256-S48 | 0 | 48 | 158.6 |

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 detmails.

Specifications

| 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) | |
| Insulation Strength | 800VAC@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