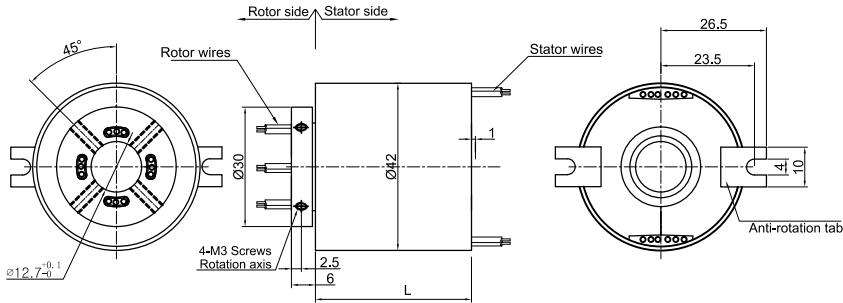
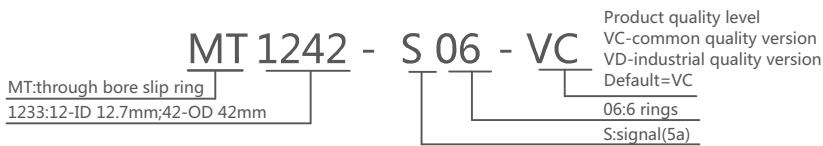


# MT1242 Series

MT1242 series provides a 12.7mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 42mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications. MT1242 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), 5A current when 360° degree free rotating.



## Part# Explanation



## Part# List

MT1242 Series Parts# List		
Part#	Signal or 5A	Length-L (mm)
MT1242-S02	2	25.4
MT1242-S03	3	25.4
MT1242-S04	4	25.4
MT1242-S06	6	25.4
MT1242-S08	8	39.2
MT1242-S10	10	39.2
MT1242-S12	12	39.2

Note: N channels 5A rings parallel can be used as 1 channel N\*5A current. For example: 2 rings 5A parallel could be used as 1 wires 10A. If each circuit need to pass current over 5A, please contact customer service for more details.

## Specifications

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	AWG17, AWG22#Teflon	AWG22#Teflon
Lead Length	Standard 300mm (adjustable)	
Insulation 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/6rings	
Protection Grade	IP51	

### Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Contact Material
VC	400PRM	30 Million Revs	Precious Metal
VD	1200PRM	80 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 colors, 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)