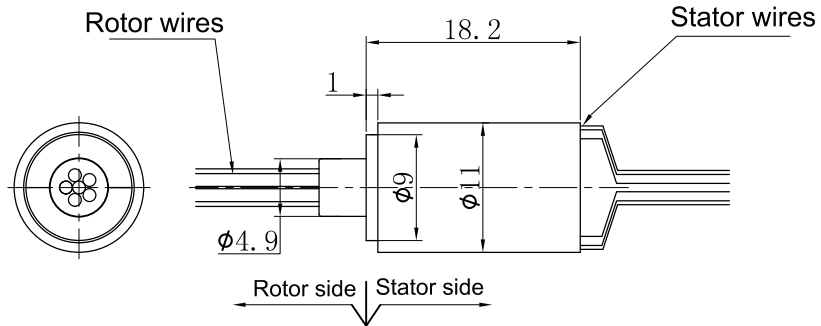
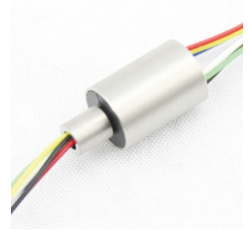


# MMC181 Miniature Capsule Slip Rings

OD 11.0mm

MMC181 slip rings are small and compact with OD 11mm \* L 18.2mm, standard, off-the-shelf. Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. Using a 90° V-groove ring design for each ring.

MMC1819 is the high-end version corresponding to MMC181, It has higher performance and longer working life, higher speed rotating speed, low noise.



## Part# Explanation

### MMC 181(9)-FL01

MMC:miniature capsule slip ring  
 181:common quality version  
 1819:high-end quality version

FL01: flange type

## Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	$\geq 600M\Omega/500VDC$	$\geq 600M\Omega/500VDC$
Lead Wires	AWG#28 teflon	AWG#28 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	See Product Quality Level Table	
Torque	0.005N.m ; +0.02N.m/6rings	
Protection Grade	IP51	

### Part# List

MMC181 Series Parts# List		
Part#	Signal/1A	Total Wires
MMC181	6	6

Note: N channels 1A rings parallel can be used as 1 channel N x 1A current. For example: 2 rings 1A parallel could be used as 1 wires 2A ,please contact sales for special requirements

### Product Quality Level Table

Part#	Max Speed	Working Life	Housing Material	Electrical Noise①@10RPM
MMC181	250RPM	>10 million	Plastics	10mΩ
MMC1819	1000RPM	>30 million	Plastics	4mΩ

### Lead Wires Color Code

Ring	1	2	3	4	5	6
Color	BLK	RED	YEL	GRN	BLU	WHT

### Options for custom slip ring

- MMC1819 is the high-end version corresponding to MMC181.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.