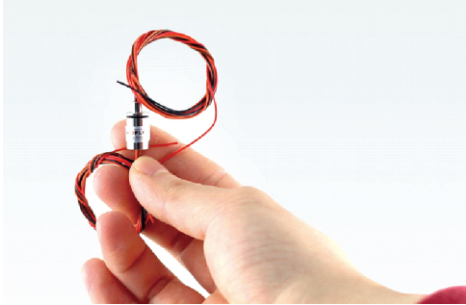


MMC series micro slip ring



Features

- Micro slip ring is a collective term for a series of slip rings with a very small overall outer diameter (6mm~15.5mm).
- The product adopts the surface treatment process of the US military industry, with ultra hard gold coating treatment to ensure extremely low resistance wavesDynamic and ultra long working life.
- Mainly used for transmitting weak control signals and weak currents in small and medium-sized systems. Like videos, controls,Sensing, power supply, Ethernet
- Low torque, low loss, and maintenance free; Low electrical noise
- Typical applications: drones, stabilizers, smart homes, security monitoring, photography and videography, robots,On testing instruments, turntables, and automation equipment.

MMC Series Models

Model#	L(mm)	OD(mm)	Number of lines (loops)	Electric current	Voltage(VDC/VAC)
MMC088	8.8	6	1~4	Signal (1A)	120
MMC118	11.9	6	1~8	Signal(1A)	120
MMC119	11.9	6.5	1~8	Signal(1A)	120
MMC172	17.2	6.5	1~12	Signal(1A)	120
MMC146	14.6	10	1~10	Signal(2A)	120
MMC132	13.2	12.5	1~6	Signal(2A)/4A	240
MMC181	18.2	11.6	1~6	Signal(2A)/4A	240
MMC182	18.2	12.5	1~6	Signal(2A)/4A	240
MMC195	19.5	12.5	1~12	Signal(2A)	240
MMC235	23.5	12.5	1~18	Signal(2A)	240
MMC397	34.1	15.5	1~24	Signal(2A)	240

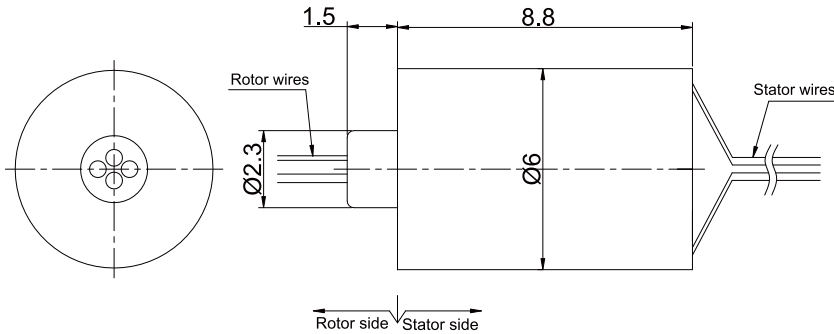
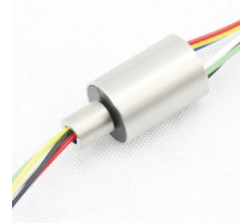
60% of our company's sales revenue comes from customized products. Please consult customer service for special requirements and specifications

MMC088 Miniature Capsule Slip Rings

OD 6mm 4 circuits, 1A each circuit

MMC088 slip rings are small and compact with OD 6mm * L 8.8mm, 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.

MMC0889 is the high-end version corresponding to MMC088, It has higher performance and longer working life, higher speed rotating speed, low noise.



Part# Explanation

MMC 088(9)

MMC:miniature capsule slip ring
 088:common quality version
 0889:high-end quality version

Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~120VAC/VDC	0~120VAC/VDC
Insulation Resistance	≥100MΩ/150VDC	≥100MΩ/150VDC
Lead Wires	AWG#32 teflon	AWG#32 teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Part# List

MMC088 Series Parts# List		
Part#	Signal/1A	Total Wires
MMC088-S02	2	2
MMC088-S04	4	4

Note: N channels 1A rings parallel can be used as 1 channel N × 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 Noise@10RPM
MMC088	250RPM	> 10 million	Plastics	10mΩ
MMC0889	1000RPM	>20 million	Plastics	4mΩ

Lead Wires Color Code

Ring	1	2	3	4
Color	BLK	RED	YEL	GRN

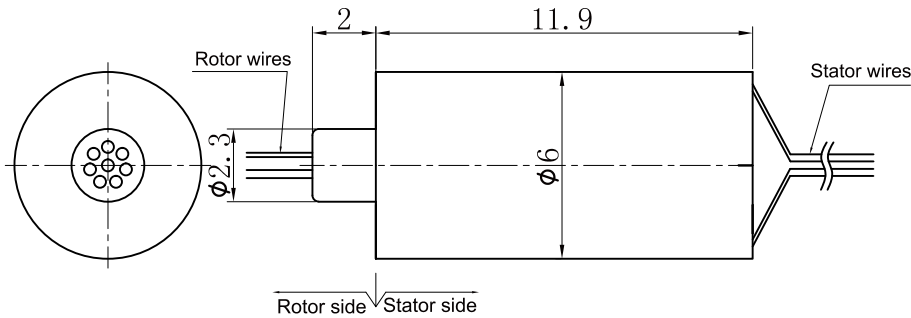
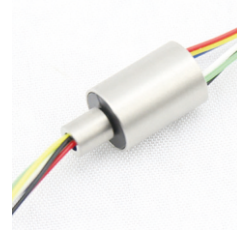
Options for custom slip ring

- MMC0889 is the high-end version corresponding to MMC088.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC118 Miniature Capsule Slip Rings

OD 6mm, 1~8Circuit

MMC118 slip rings are small and compact with OD 6mm * L 11.9mm, 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. MMC1189 is the high-end version corresponding to MMC118, It has higher performance and longer working life, higher speed rotating speed, low noise.



Part# Explanation

MMC 118(9)

MMC:miniature capsule slip ring
 118:common quality version
 1189:high-end quality version

Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~120VAC/VDC	0~120VAC/VDC
Insulation Resistance	≥100MΩ/150VDC	≥100MΩ/150VDC
Lead Wires	AWG#32 teflon	AWG#32 teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Part# List

MMC118 Series Parts# List		
Part#	Signal/1A	Total Wires
MMC118-S02	2	2
MMC118-S04	4	4
MMC118-S06	6	6
MMC118-S08	8	8

Note: N channels 1A rings parallel can be used as 1 channel $N \times 1A$ 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
MMC118	250RPM	>10 million	Plastics	10mΩ
MMC1189	1000RPM	>20 million	Plastics	4mΩ

Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8
Color	BLK	RED	YEL	GRN	BLU	WHT	ORG	PUR

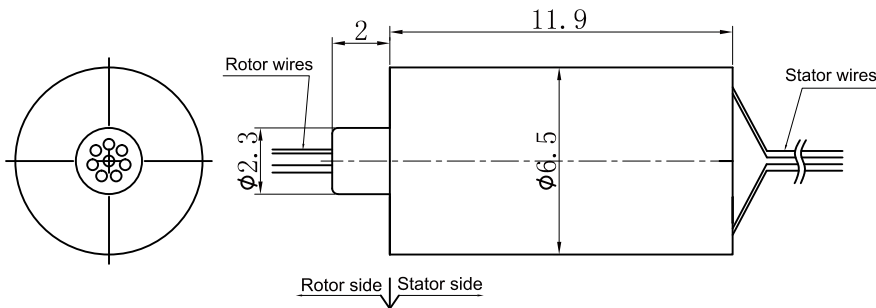
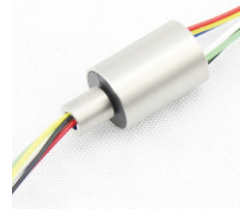
Options for custom slip ring

- MMC1189 is the high-end version corresponding to MMC118.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC119 Miniature Capsule Slip Rings

OD 6.5mm, 1~8Circuit

MMC119 slip rings are small and compact with OD 6.5mm * L 11.9mm, 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. MMC1199 is the high-end version corresponding to MMC119, It has higher performance and longer working life, higher speed rotating speed, low noise.



Part# Explanation

MMC 119(9)

MMC:miniature capsule slip ring
 119:common quality version
 1199:high-end quality version

Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~120VAC/VDC	0~120VAC/VDC
Insulation Resistance	≥100MΩ/150VDC	≥100MΩ/150VDC
Lead Wires	AWG#32 teflon	AWG#32 teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Part# List

MMC119 Series Parts# List		
Part#	Signal/1A	Total Wires
MMC119-S04	4	4
MMC119-S06	6	6
MMC119-S08	8	8

Note: N channels 1A rings parallel can be used as 1 channel $N \times 1A$ 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
MMC119	250RPM	>10 million	Plastics	10mΩ
MMC1199	1000RPM	>20 million	Plastics	4mΩ

Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8
Color	BLK	RED	YLK	GRN	BLU	WHT	ORG	PUR

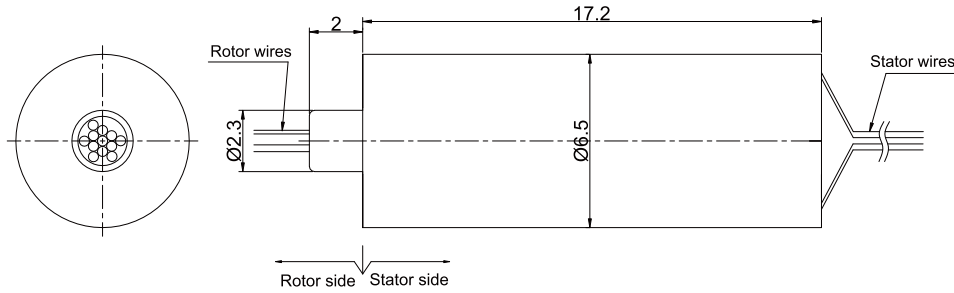
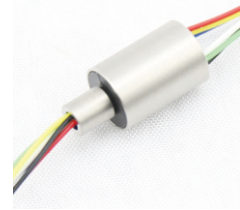
Options for custom slip ring

- MMC1199 is the high-end version corresponding to MMC119.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC172 Miniature Capsule Slip Rings

OD 6.5mm, 1~12Circuit

MMC172 slip rings are small and compact with OD 6.5mm * L 17.2mm, 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. MMC1729 is the high-end version corresponding to MMC172, It has higher performance and longer working life, higher speed rotating speed, low noise.



Part# Explanation

MMC 172(9)

MMC:miniature capsule slip ring
 172:common quality version
 1729:high-end quality version

Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~120VAC/VDC	0~120VAC/VDC
Insulation Resistance	≥100MΩ/150VDC	≥100MΩ/150VDC
Lead Wires	AWG#32 teflon	AWG#32 teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Part# List

MMC172 Series Parts# List		
Part#	Signal/1A	Total Wires
MMC172-S10	10	10
MMC172-S12	12	12

Note: N channels 1A rings parallel can be used as 1 channel N × 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
MMC172	250RPM	> 10 million	Plastics	10mΩ
MMC1729	1000RPM	> 20 million	Plastics	4mΩ

Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	RED	YLK	GRN	BLU	WHT	BN	OG	PL	GY	BU	PK

Options for custom slip ring

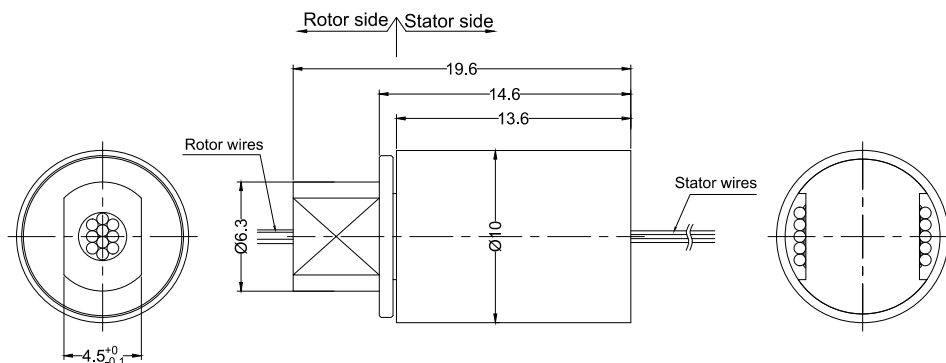
- MMC1729 is the high-end version corresponding to MMC172.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC146 Split electric slip ring

OD 10mm, 1~10Circuit

MMC146 slip rings are small and compact with OD 10mm * L 19.6mm, 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.

MMC1469 is the high-end version corresponding to MMC146, It has higher performance and longer working life, higher speed rotating speed, low noise.



Part# Explanation

MMC 146(9)

MMC:miniature capsule slip ring
146:common quality version
1469:high-end quality version

Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~120VAC/VDC	0~120VAC/VDC
Insulation Resistance	≥100MΩ/120VDC	≥100MΩ/120VDC
Lead Wires	AWG#28 teflon	AWG#28 teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Part# List

MMC146 Series Parts# List		
Part#	Signal/2A	Total Wires
MMC146	10	10

Note: N channels 1A rings parallel can be used as 1 channel N × 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
MMC146	250RPM	>10 million	Plastic	10mΩ
MMC1469	1000RPM	>20 million	Plastic	4mΩ

Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8	9	10
Color	RED	GN	YL	PL	GY	BK	BU	BN	OG	WT

Options for custom slip ring

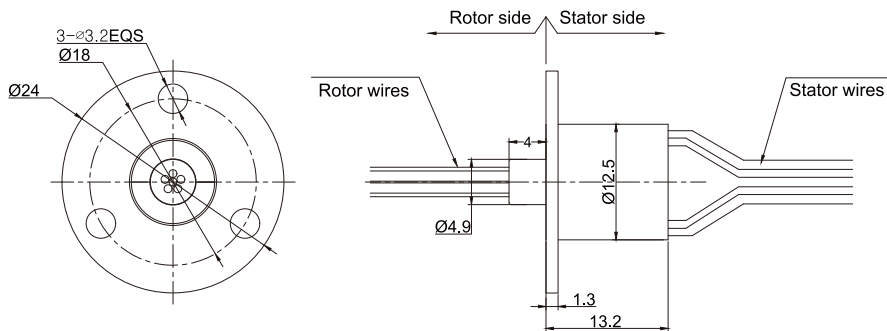
- MMC1469 is the high-end version corresponding to MMC146.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC132 Series Compact Slip Rings

OD 12.5mm, 1~6Circuit

MMC132 is an ultra miniature cap slip ring that uses gold contact points to ensure stability and service life. It is mainly used in civil and commercial fields. The product adopts the surface treatment process of the US military industry, with ultra hard gold coating treatment, ensuring extremely low resistance fluctuation and long working life. Mainly used for transmitting weak control signals and weak currents in small and medium-sized systems. Such as video, control, sensor power supply, Ethernet Low torque, low loss, and maintenance free; Low electrical noise.

Typical applications: security monitoring, photography and videography, robots, testing instruments, turntables, and automation equipment. MMC132 is a high-end product of MMC132, with ultra thick gold plating treatment, fully imported bearings, rare metal alloy brush wires, mainly used in non civilian fields such as military and national defense,



Part# Explanation

MMC 132(9)

MMC: Miniature capsule slip ring

132 Common quality version
1329: High-end quality version

Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	≥100MΩ/500VDC	≥100MΩ/500VDC
Lead Wires	AWG20#teflon	AWG28#teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Part# List

MMC132 Series Parts# List			
Part#	6A	Signal/2A	Total Wires
MMC132	0	6	6
MMC132-P0206	6	0	6

Note: N channels 1A rings parallel can be used as 1 channel N × 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
MMC132	250RPM	> 10 million	Plastics	10mΩ
MMC1329	1000RPM	> 30 million	Plastics	4mΩ

Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	RED	YLK	GRN	BLU	WHT	BN	OG	PL	GY	BU	PK

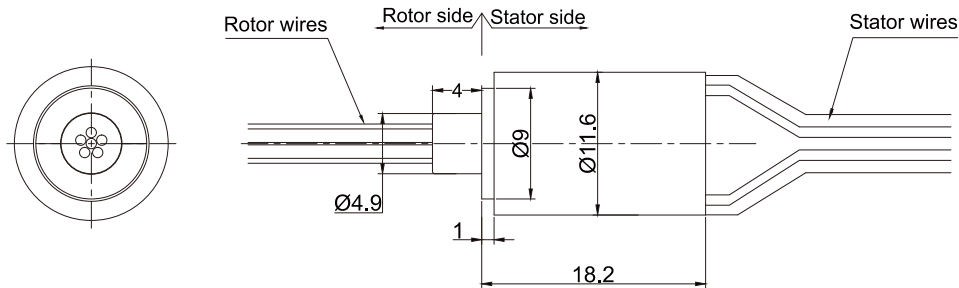
Options for custom slip ring

- MMC1329 is the high-end version corresponding to MMC132.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC181 Miniature Capsule Slip Rings

OD 11.6mm

MMC181 slip rings are small and compact with OD 11.6mm * 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. MMC181 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	0~220VAC/VDC	0~120VAC/VDC
Insulation Resistance	≥100MΩ/500VDC	≥100MΩ/500VDC
Lead Wires	AWG#24 teflon	AWG#28 teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Part# List

MMC182 Series Part# List			
Part#	4A	Signal/2A	Total Wires
MMC181-S06	0	6	6
MMC181-p0604	6	0	6

Note: N channels 2A rings parallel can be used as 1 channel N × 2A current. For example: 2 rings 2A parallel could be used as 1 wires 4A 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	>20 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

- MMC1829 is the high-end version corresponding to MMC182.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC182 Miniature Capsule Slip Rings

OD 12.5mm

MMC182 slip rings are small and compact with OD 12.5mm * 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. MMC1829 is the high-end version corresponding to MMC182, It has higher performance and longer working life, higher speed rotating speed, low noise.



Part# Explanation

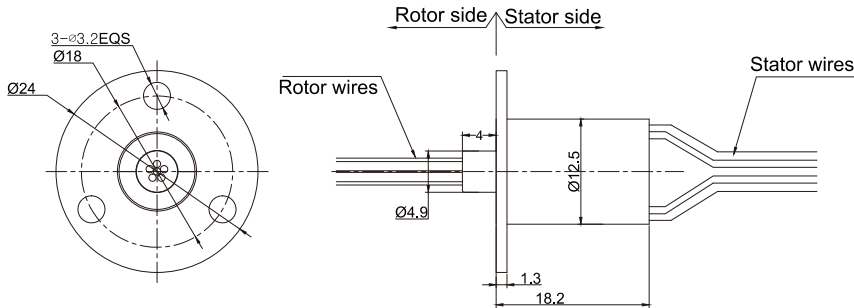
MMC 182(9)-FL01

MMC:miniature capsule slip ring
182:common quality version
1829:high-end quality version

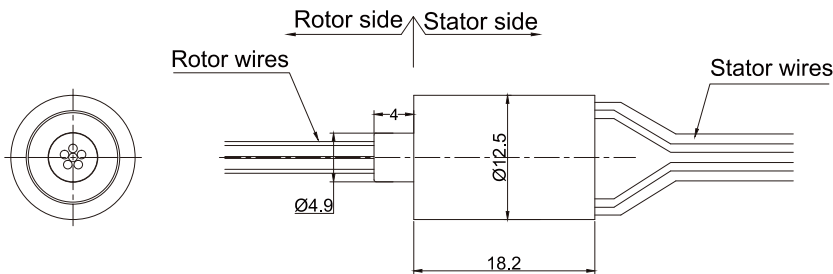
FL01: flange type

Dimensions

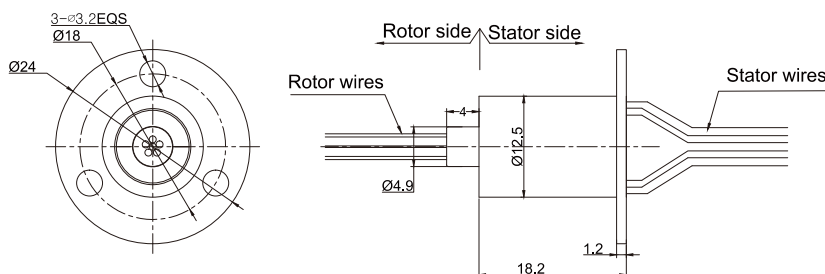
MMC182 Standard Model



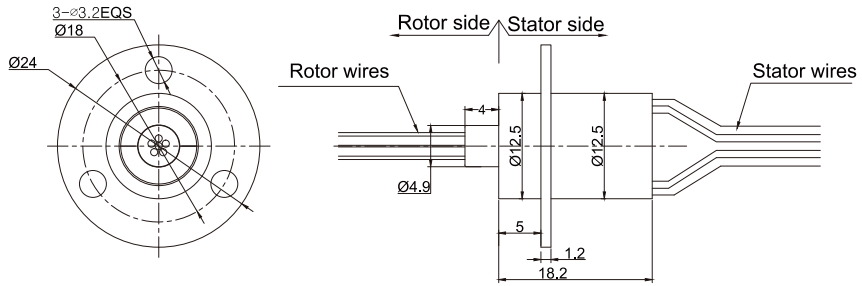
MMC182 - FL00



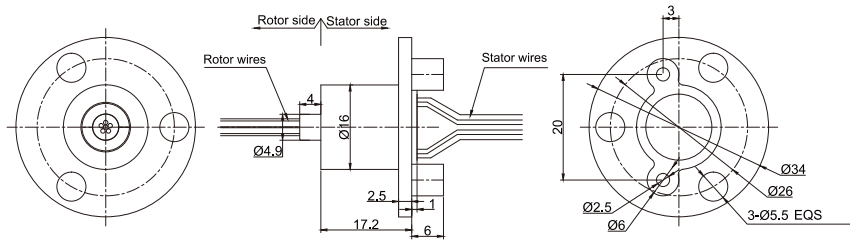
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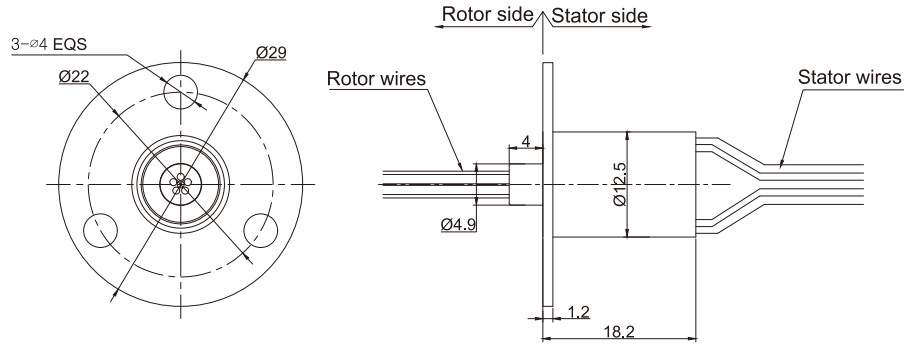
MMC182-FL02



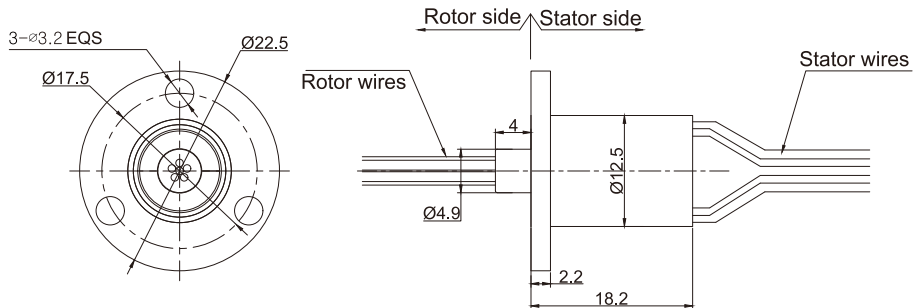
MMC182-FL03



MMC182-FL04



MMC182-FL05



Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	≥100MΩ/500VDC	≥100MΩ/500VDC
Lead Wires	AWG#24 teflon	AWG#28 teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Part# List

MMC182 Series Parts# List			
Part#	4A	Signal/2A	Total Wires
MMC182	0	6	6
MMC182-P0604	6	0	6

Product Quality Level Table

Part#	Max Speed	Working Life	Electrical Noise①@10RPM
MMC182	250RPM	>10 million	10mΩ
MMC1829	1000RPM	>30 million	4mΩ

Lead Wires Color Code

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

Options for custom slip ring

- MMC1829 is the high-end version corresponding to MMC182.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC195 Miniature Capsule Slip Rings

OD 12.5mm

MMC195 slip rings are small and compact with OD 12.5mm * L 19.5mm, 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.

MMC1959 is the high-end version corresponding to MMC195, It has higher performance and longer working life, higher speed rotating speed, low noise.



Part# Explanation

MMC 195(9)-FL01

MMC:miniature capsule slip ring

195:common quality version

1959:high-end quality version

FL01: flange type

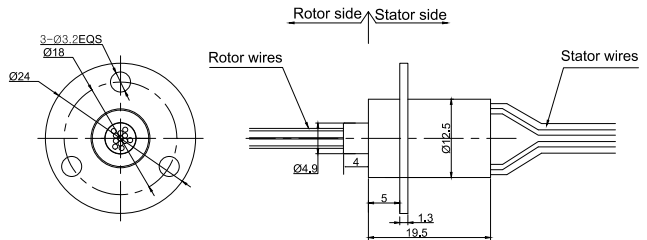
Part# List

MMC195 Series Parts# List		
Part#	Signal/2A	Total Wires
MMC195	12	12

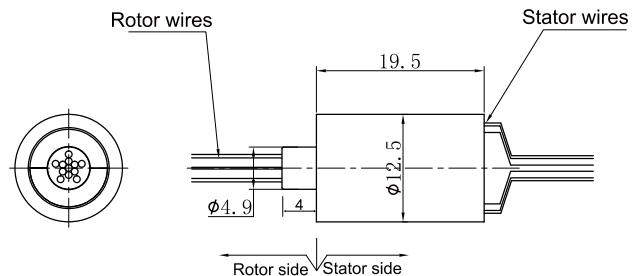
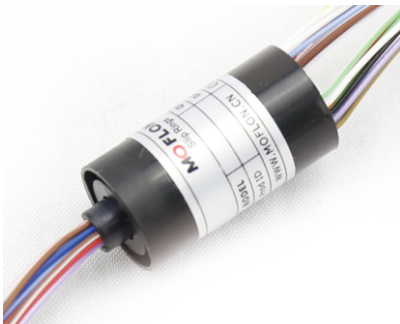
Note:N channels 1A rings parallel can be used as 1 channel N × 1A current. For Example: 2 rings 1A parallel could be used as 1 wires 2A ,please contact sales for special requirements

Dimensions

MMC195 Standard Model



MMC195 Without Flange Model



Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	≥100MΩ/500VDC	≥100MΩ/500VDC
Lead Wires	AWG#28 teflon	AWG#28 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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Product Quality Level Table

Part#	Max Speed	Working Life	Housing Material	Electrical Noise①@10RPM
MMC195	250RPM	>10 million	Plastics	10mΩ
MMC1959	1000RPM	>30 million	Plastics	4mΩ

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

Options for custom slip ring

- MMC1959 is the high-end version corresponding to MMC195.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC235 Miniature Capsule Slip Rings

OD 12.5mm

MMC235 slip rings are small and compact with OD 12.5mm * L 23.5mm, 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.

MMC2359 is the high-end version corresponding to MMC235, It has higher performance and longer working life, higher speed rotating speed, low noise.



Part# Explanation

MMC 235(9)-FL01

MMC:miniature capsule slip ring
 235:common quality version
 2359:high-end quality version

FL01:flange type

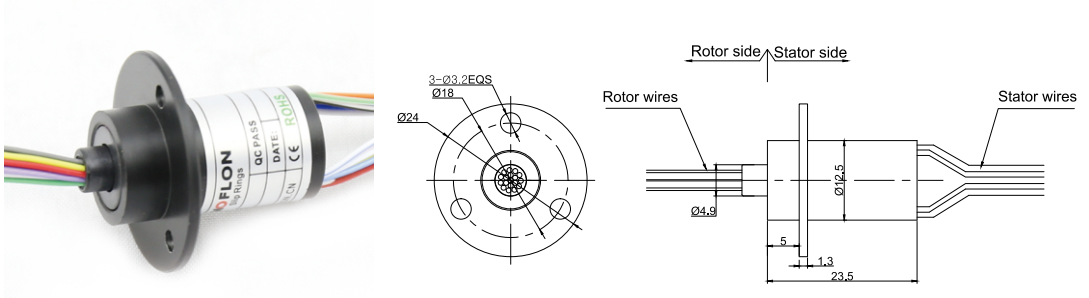
Part# List

MMC235 Series Parts# List		
Part#	Signal/2A	Total Wires
MMC235	18	18

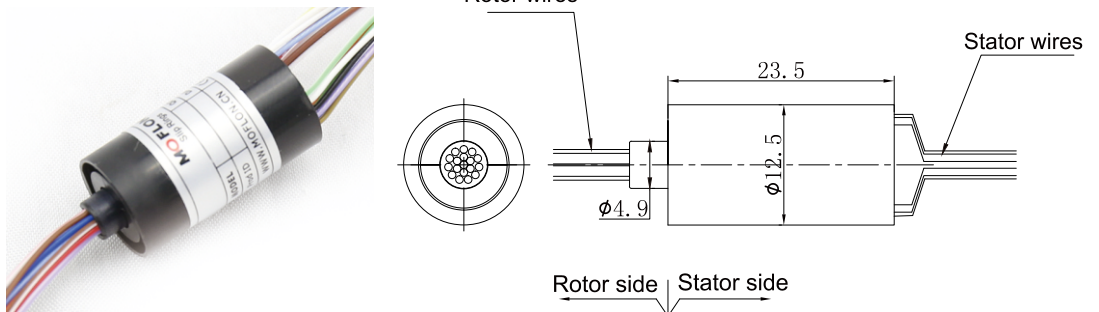
Note: N channels 1A rings parallel can be used as 1 channel N × 1A current. For Example: 2 rings 1A parallel could be used as 1 wires 2A ,please contact sales for special requirements

Dimensions

MMC235 Standard Model



MMC235 Without Flange Model



Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	≥100MΩ/500VDC	≥100MΩ/500VDC
Lead Wires	AWG#28 teflon	AWG#28 teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Product Quality Level Table

Part#	Max Speed	Working Life	Housing Material	Electrical Noise①@10RPM
MMC235	250RPM	> 10 million	Plastics	10mΩ
MMC2359	1000RPM	>20 million	Plastics	4mΩ

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
Ring	13	14	15	16	17	18						
Color	WHT RED	WHT BLK	WHT BLU	WHT PURPLE	WHT BRN	WHT GRN						

Options for custom slip ring

- MMC2359 is the high-end version corresponding to MMC235.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MMC397 Miniature Capsule Slip Rings

OD 15.5mm

MMC397 slip rings are small and compact with OD 15.5mm * L 34.1mm, 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. MMC3979 is the high-end version corresponding to MMC397, It has higher performance and longer working life, higher speed rotating speed, low noise.



Part# Explanation

MMC 397(9)-FL01

MMC:miniature capsule slip ring
 397:comon quality version
 3979:high-end quality version

FL01:flange type

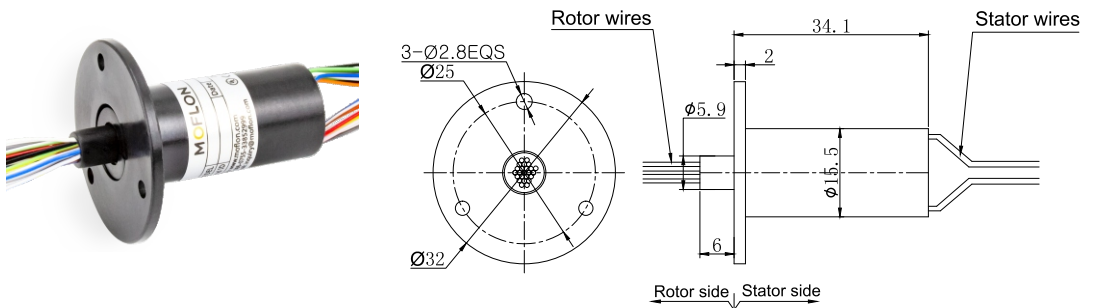
Part# List

MMC397 Series Parts# List		
Part#	Signal/2A	Total Wires
MMC397	24	24

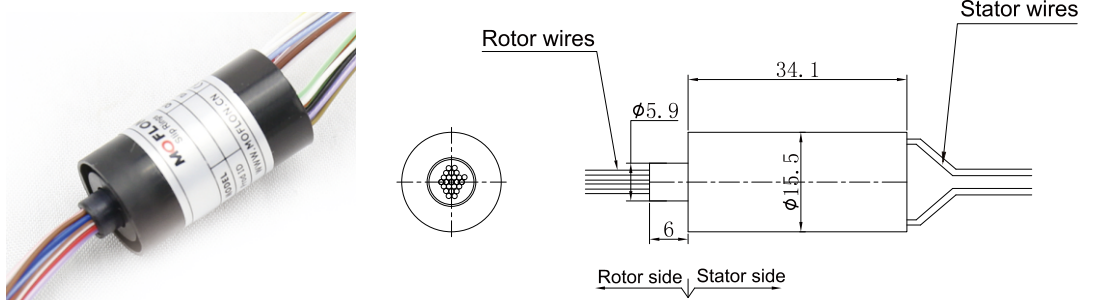
Note:N channels 1A rings parallel can be used as 1 channel N × 1A current. For Example: 2 rings 1A parallel could be used as 1 wires 2A ,please contact sales for special requirements

Dimensions

MMC397 Standard Model



MMC397 Without Flange Model



Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	≥100MΩ/500VDC	≥100MΩ/500VDC
Lead Wires	AWG#30 teflon	AWG#28 teflon
Lead Length	Standard 300mm(adjustable)	
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	See Product Quality Level Table	
Torque	0.005N.m; +0.02N.m/6rings	
Protection Grade	IP51	

Product Quality Level Table

Part#	Max Speed	Working Life	Housing Material	Electrical Noise①@10RPM
MMC397	250RPM	>10 million	Plastics	10mΩ
MMC3979	1000RPM	>20 million	Plastics	4mΩ

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
Ring	13	14	15	16	17	18	19	20	21	22	23	24
Color	WHT RED	WHT BLK	WHT BLU	WHT PURPLE	WHT BRN	WHT GRN	WHT ORN	WHT YEL	WHT GRA	BLK RED	BLK BLU	YEL GRN

Options for custom slip ring

- MMC3979 is the high-end version corresponding to MMC397.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

MG Series Stator Flange Slip Rings

MG series slip ring is a general name for the slip ring with stator part connecting flange. This series slip ring, without through bore, is suitable for flange face mounting. Because there is no hole in center, with the same OD(outer diameter)size, it can achieve more circuits and higher current. With ample inner space, this series product is easily to build with inner wiring and special shielding module, which is very stable and reliable. This series product is often used to customize sensitive signals or encoder signals.



MG Series Models

Model#	OD(mm)	Circuits (Rings)	Pcurrent (A)	Voltage (VAC/VDC)
MG056	56	1~48	signal(2A)~10A	0~440
MG056F	56	1~48	signal(2A)~10A	0~440
MG086	86	1~72	signal(2A)~10A	0~440
MG086F	86	1~72	signal(2A)~10A	0~440
MG119	119	1~119	signal(2A)~10A	0~440
MG119F	119	1~119	signal(2A)~10A	0~440

60% of MOFLON's sales are customized solutions, please contact customer service for special requirements.

