

## MC SERIES

## MC Series slip rings with capsules

Small and compact with OD 22mm, with capsule style.

Special designed for CCTV or small rotating system, OD 22mm and Special fit for middle/small rotating system of transmitting low controlling signal.

Standard, off-the-shelf, no through bore

Circuits combination is available (such as video, control, sensor, power, Ethernet and so on)

Lower torque low contact wear rates

Support video, control, sensor, power, Ethernet signals

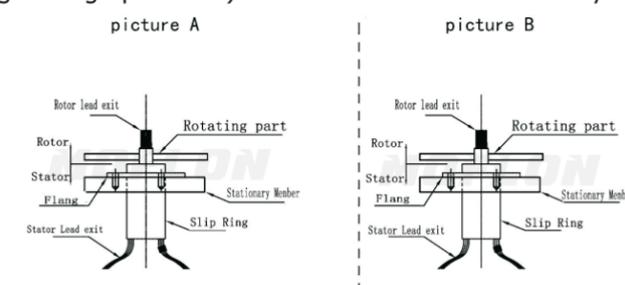


MODEL#	OD*LENGTH (MM)	RINGS	CURRENT	VOLTAGE	MAX SPEED
MC190	22*19 (0.87"*0.75")	6	Signal(2A)	240VAC/VDC	250RPM
MC260	22*26 (0.87"*1.02")	12	Signal(2A)	240VAC/VDC	250RPM
MC330	22*33 (0.87"*1.3")	18	Signal(2A)	240VAC/VDC	250RPM
MC400	22*40 (0.87"*1.57")	24	Signal(2A)	240VAC/VDC	250RPM
MC573	22*57.3 (0.87"*2.26")	36	Signal(2A)	240VAC/VDC	250RPM
MC857	22*85.7 (0.97"*3.37")	56	Signal(2A)	240VAC/VDC	150RPM

## Flange Mounting Instructions

1. Align the mounting holes in the flange to mounting base and install flat washers and thread forming screws (NOT SUPPLIED) for plastic. Securely tighten screws.
2. Route the wiring and make the necessary connections. Do not allow the wiring to restrict free rotation of the slip ring.
3. Position a screw or dowel (NOT SUPPLIED) in the anti-rotation tab to the dimension as shown.

**CAUTION:** Because of possible geometric mismatching between the customer's application and the slip ring, 'hard mounting' of both ends of the slip ring (i.e., securing the rotor and stator such that there is NO floating during operation) is not recommended and may cause premature failure



MC190 - MC SERIES

MC190 - MC SERIES

MC190 Slip Rings

OD 22.00mm(0.87"),Length 19mm(0.75")

Mc190 slip rings are small and compact with OD 22mm \* L 19mm, with capsule style, 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.

MC1909 is the high-end version corresponding to MC190, See difference as below:

	Max Speed	Working life	Torque	Housing Material	Electrical noise① @10Rpm
MC190	250RPM	50million	0.02 N·m	Plastics	10mΩ
MC1909	1000RPM	150million	0.005 N·m	Metal	4mΩ



Specifications

PART #	OD*L	SIGNAL/2A	4A	8A	15A	TOTAL WIRES
MC190	22mm*19mm	6	0	0	0	4
MC190-P0204-S02	22mm*19mm	2	2	0	0	4
MC190-P0304	22mm*19mm	0	3	0	0	3
MC190-P0108-S02	22mm*19mm	2	0	1	0	3

Shared Specifications

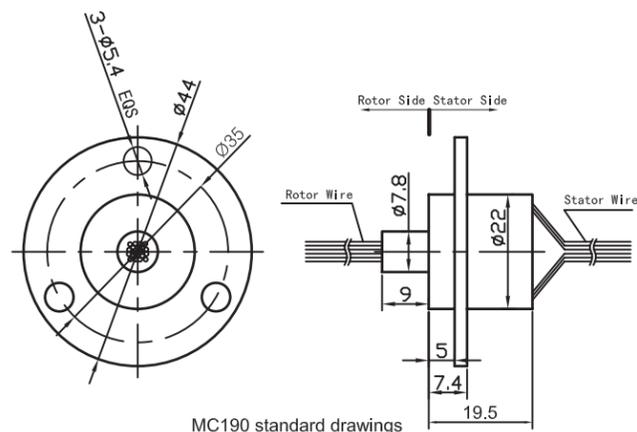
Wires	Max(see table as above)	Current	Signal(2A),Multiple 2A
Voltage	240 VDC/VAC	Max speed	250RPM
Overall diameter	22mm(0.87")	Length	19mm(0.75")
Contact Material	Precious Metal:gold-gold	Contact Resistance	<150mOhm(AWG28#,250mm)
Housing Material	Plastics	Torque	0.02N.m
Working life	50million	Electrical noise	<10mΩ
Dielectric strength	600VDC@50Hz	Lead Wire	UL Teflon® Awg28
Insulation resistance	1000MΩ@500VDC	Lead Lengths	250mm
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical vibration	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free,RoHS compliant	CE Certified	YES

Notes:

- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 2A/signal -> AWG28, 4A -> AWG22, 8A -> Awg16, 15A -> Awg14, colored code.
- 3)Electrical noise is dependent upon the rotating speed and current,voltage.

Drawings

Standard drawings:



MC190 standard drawings

Lead wire Color codes

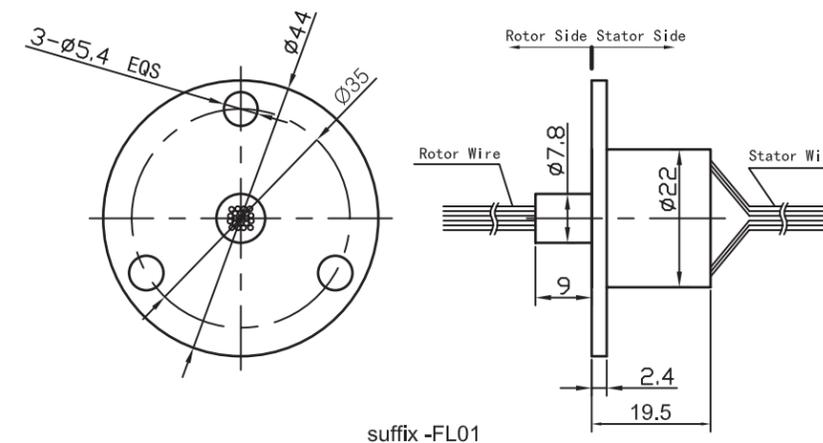
Rings#	Color Code	Rings#	Color Code	Rings#	Color Code
1	BLK	3	RED	5	YEL
2	BRN	4	ORN	6	GRN

Optional Flanges drawings:

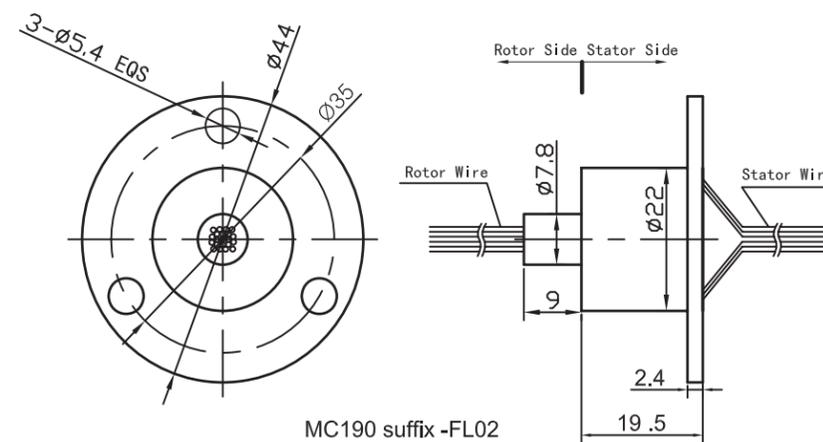
At sometimes, we need a different flange for mounting instead, how should we do?

Great! Moflon supply many flange style as below:

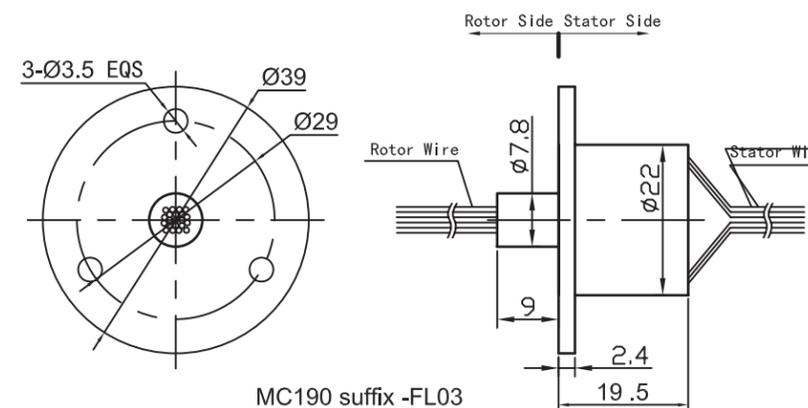
(when you order, pls add FL01 ... FL08 at the suffix of Part#, for example: MC190-S06-FL01 means MC190-S06 with optional flange FL01.)



suffix -FL01



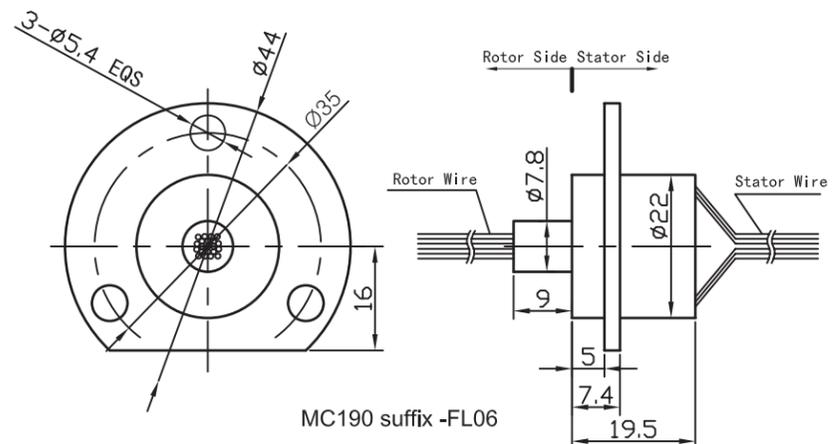
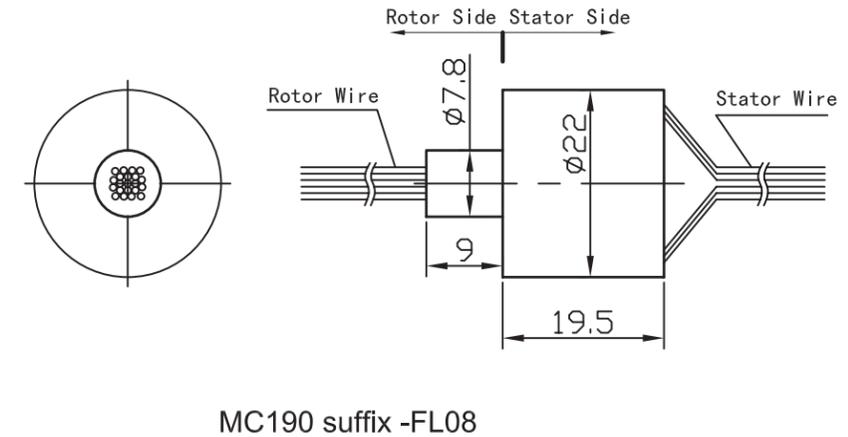
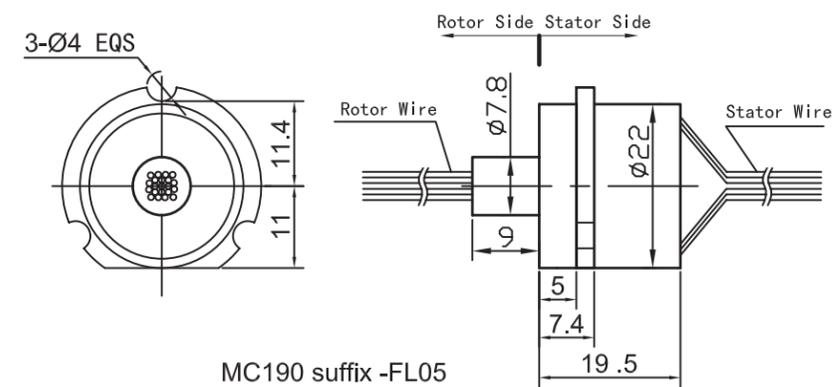
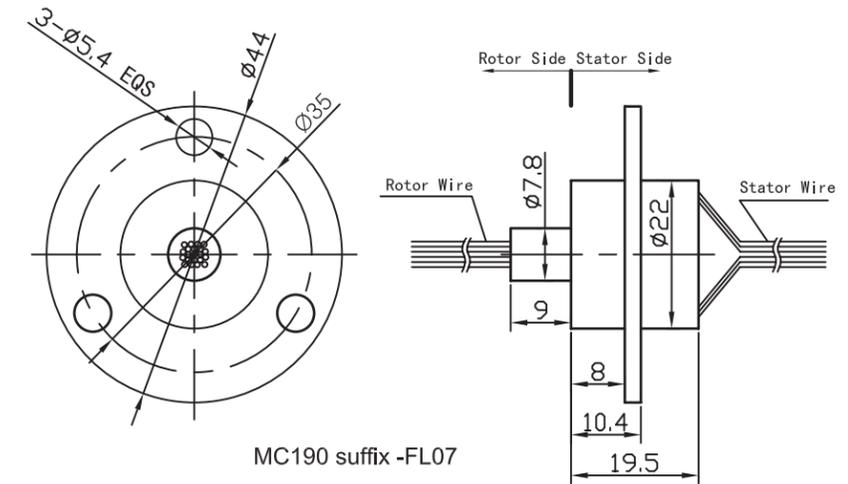
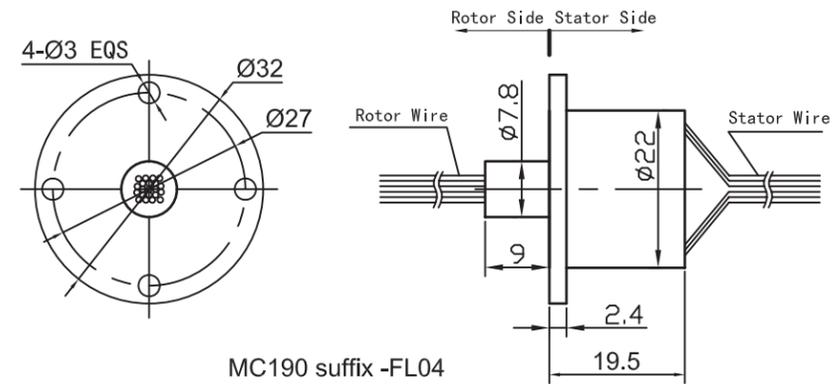
MC190 suffix -FL02



MC190 suffix -FL03

## MC190 - MC SERIES

## MC190 - MC SERIES



### Options

- ▶ Mc1909 is the high-end version corresponding to MC190.
- ▶ Optional flange mounting.
- ▶ Specified connectors and Heat-shrink tube.
- ▶ Longer lead lengths available.
- ▶ High temperature is optional.
- ▶ Military Grade.

### Application

#### Typical Application

- ▶ CCTV Monitoring System.
- ▶ Electrical test equipment.
- ▶ Medical equipment.
- ▶ Rotary table
- ▶ Robotics
- ▶ Laboratory equipmen
- ▶ Manufacturing and process control equipment
- ▶ and so on...
- ▶ if you want to use this series slip ring on your mechanism, pls contact us for more application: [technical@moflon.com](mailto:technical@moflon.com)

# MC260 Slip Rings

OD 22.00mm(0.87"), Length 26mm(1.02")

MC260 slip rings are small and compact with OD 22mm \* L 26mm, with capsule style, 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.



MC2609 is the high-end version corresponding to MC260, See difference as below:

	Max Speed	Working life	Torque	Housing Material	Electrical noise① @10Rpm
MC260	250RPM	50million	0.03 N·m	Plastics	10mΩ
MC2609	1000RPM	150million	0.008 N·m	Metal	4mΩ

## Specifications

PART #	OD * L	SIGNAL/2A	4A	8A	15A	TOTAL WIRES
MC260	22mm*26mm	12	0	0	0	12
MC260-P0404-S06	22mm*26mm	6	3	0	0	9
MC260-P0208-S02	22mm*26mm	2	0	2	0	4
MC260-P0308	22mm*26mm	0	0	3	0	3
MC260-P0308	22mm*26mm	0	0	0	1	1

## Shared Specifications

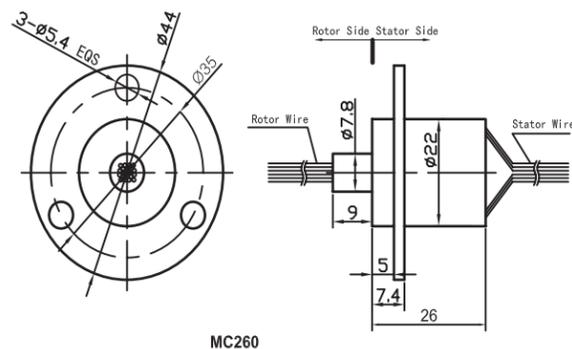
Wires	Max 12(see table as above)	Current	Signal(2A), Multiple 2A
Voltage	240 VDC/VAC	Max speed	250RPM
Overall diameter	22mm(0.87")	Length	26mm(1.02")
Contact Material	Precious Metal:gold-gold	Contact Resistance	<150mOhm(AWG28#,250mm)
Housing Material	Plastics	Torque	0.03N.m
Working life	50million	Electrical noise	<10mΩ
Dielectric strength	600VDC@50Hz	Lead Wire	UL Teflon® Awg28
Insulation resistance	1000MΩ@500VDC	Lead Lengths	250mm
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical vibration	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free,RoHS compliant	CE Certified	YES

Notes:

- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 2A/signal -> AWG28, 4A -> AWG22, 8A -> Awg16, 15A -> Awg14, colored code.
- 3)Electrical noise is dependent upon the rotating speed and current,voltage.

## Drawings

### Standard drawings:



## Lead wire Color codes

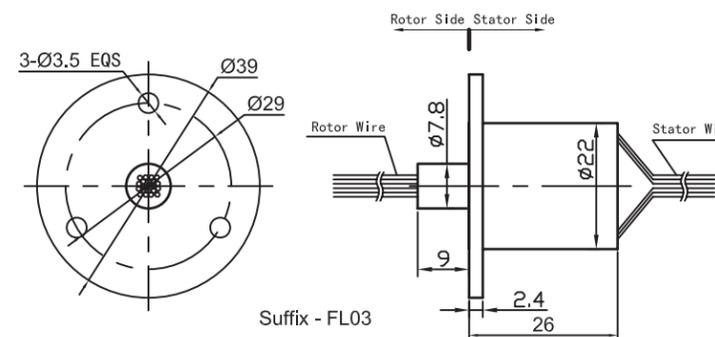
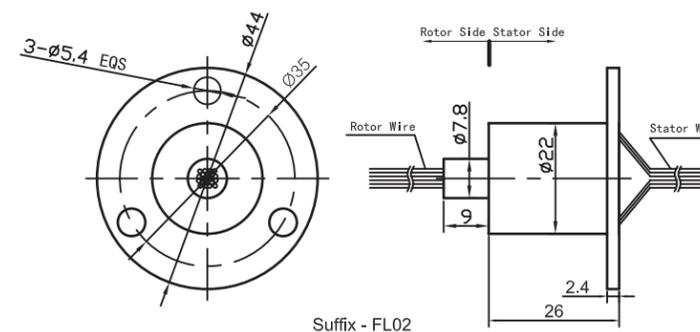
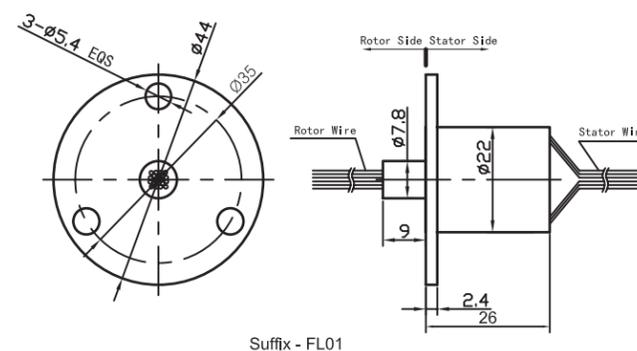
Rings#	Color Code	Rings#	Color Code	Rings#	Color Code
1	BLK	3	RED	5	YEL
2	BRN	4	ORN	6	GRN
7	BLU	9	GRY	11	PINK
8	PURPLE	10	WHT	12	AZURY

### Optional Flanges drawings:

At sometimes, we need a different flange for mounting instead, how should we do?

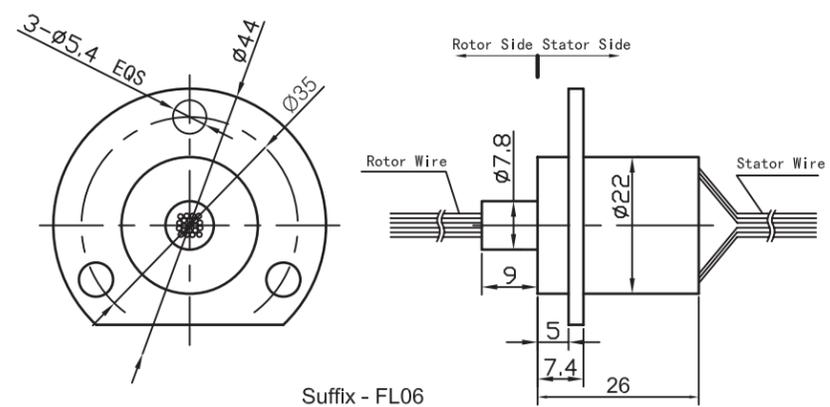
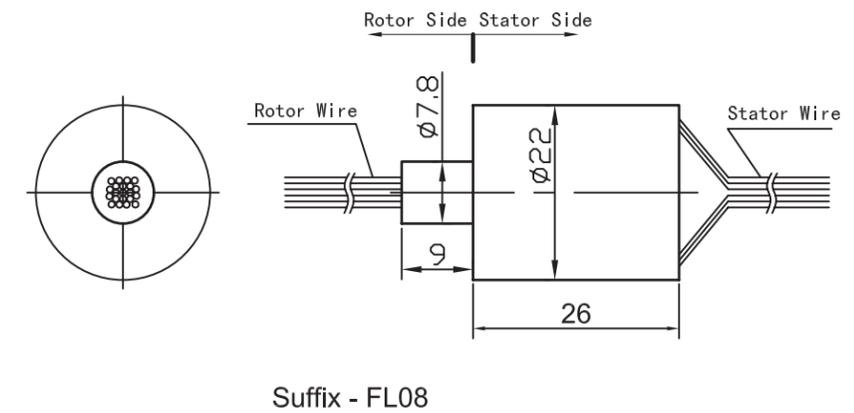
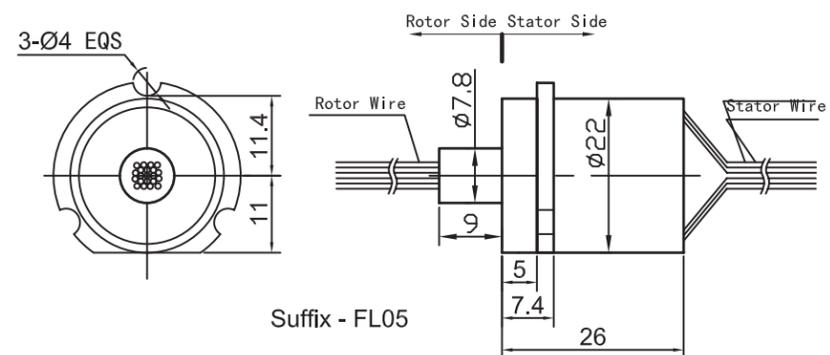
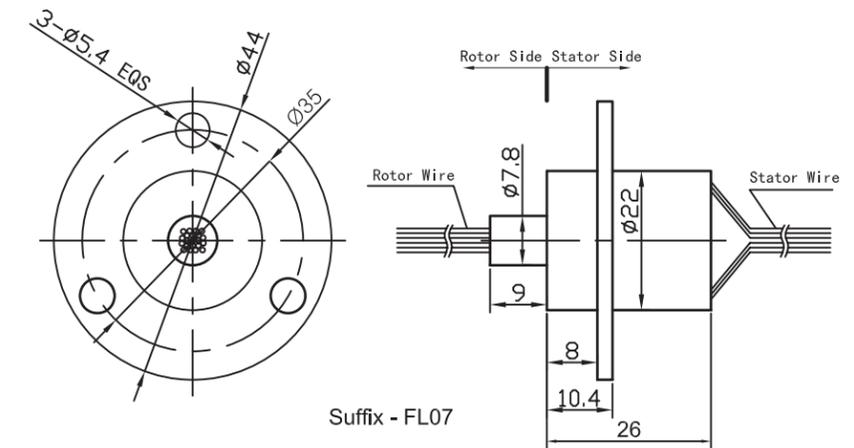
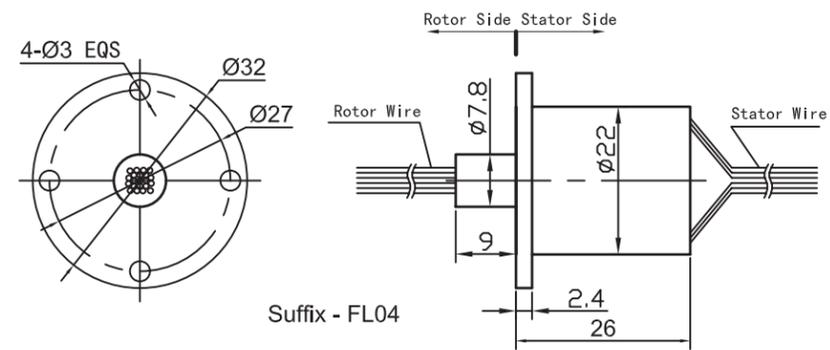
Great! Moflon supply many flange style as below:

(when you order, pls add FL01 ... FL08 at the suffix of Part#, for example: MC260-S12-FL01 means MC260-S12 with optional flange FL01.)



## MC260 - MC SERIES

## MC260 - MC SERIES



## Options

- ▶ MC2609 is the high-end version corresponding to MC260.
- ▶ Optional flange mounting.
- ▶ Specified connectors and Heat-shrink tube.
- ▶ Longer lead lengths available.
- ▶ High temperature is optional.
- ▶ Military Grade.

## Application

## Typical Application

- ▶ CCTV Monitoring System.
- ▶ Electrical test equipment.
- ▶ Medical equipment.
- ▶ Rotary table
- ▶ Robotics
- ▶ Laboratory equipmen
- ▶ Manufacturing and process control equipment
- ▶ and so on...
- ▶ if you want to use this series slip ring on your mechanism, pls contact us for more application: [technical@moflon.com](mailto:technical@moflon.com)

## MC330 Slip Rings

OD 22.00mm(0.87"), Length 33mm(1.3")

MC260 slip rings are small and compact with OD 22mm \* L 33mm, with capsule style, 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.

MC3309 is the high-end version corresponding to MC330, See difference as below:

	Max Speed	Working life	Torque	Housing Material	Electrical noise <sup>①</sup> @10Rpm
MC330	250RPM	50million	0.04 N·m	Plastics	10mΩ
MC3309	1000RPM	150million	0.001 N·m	Metal	4mΩ



### Specifications

PART #	OD * L	SIGNAL/2A	4A	8A	15A	TOTAL WIRES
MC330	22mm*33mm	18	0	0	0	18
MC330-P0604-S06S	22mm*33mm	6	3	0	0	12
MC330-P0308-S06	22mm*33mm	6	0	3	0	9
MC330-P0408-S02	22mm*33mm	2	0	4	0	6
MC330-P0215	22mm*33mm	0	0	0	2	2

### Shared Specifications

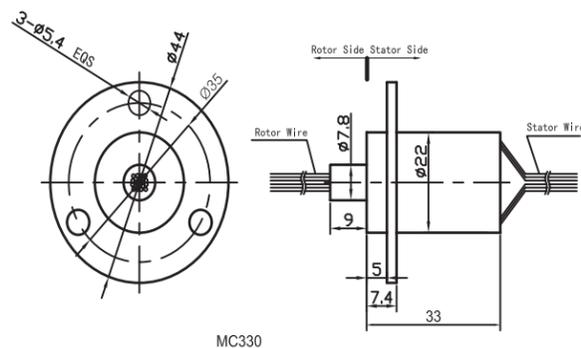
Wires	Max 18(see table as above)	Current	Signal(2A),Multiple 2A
Voltage	240 VDC/VAC	Max speed	250RPM
Overall diameter	22mm(0.87")	Length	33mm(1.3")
Contact Material	Precious Metal:gold-gold	Contact Resistance	<150mOhm(AWG28#,250mm)
Housing Material	Plastics	Torque	0.04N.m
Working life	50million	Electrical noise	<10mΩ
Dielectric strength	600VDC@50Hz	Lead Wire	UL Teflon® Awg28
Insulation resistance	1000MΩ@500VDC	Lead Lengths	250mm
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical vibration	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free,RoHS compliant	CE Certified	YES

#### Notes:

- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 2A/signal -> AWG28, 4A -> AWG22, 8A -> Awg16, 15A -> Awg14, colored code.
- 3)Electrical noise is dependent upon the rotating speed and current,voltage.

### Drawings

#### Standard drawings:



### Lead wire Color codes

Rings#	Color Code	Rings#	Color Code	Rings#	Color Code
1	BLK	9	GRY	17	WHT YEL
2	BRN	10	ORN		
3	RED	11	PINK		
4	ORN	12	AZURY		
5	YEL	13	WHT BLK		
6	GRN	14	WHT BRN		
7	BLU	15	WHT RED		
8	PURPLE	16	WHT ORG		

### Options

- MC3309 is the high-end version corresponding to MC330.
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- High temperature is optional.
- Military Grade.

### Application

#### Typical Application

- CCTV Monitoring System.
- Electrical test equipment.
- Medical equipment.
- Rotary table
- Robotics
- Laboratory equipmen
- Manufacturing and process control equipment
- and so on...
- if you want to use this series slip ring on your mechanism, pls contact us for more application:[technical@moflon.com](mailto:technical@moflon.com)

## MC400 Slip Rings

OD 22.00mm(0.87"), Length 40mm(1.57")

Mc400 slip rings are small and compact with OD 22mm \* L 40mm, with capsule style, 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.



MC4009 is the high-end version corresponding to MC400, See difference as below:

	Max Speed	Working life	Torque	Housing Material	Electrical noise① @10Rpm
MC400	250RPM	50million	0.06 N·m	Plastics	10mΩ
MC4009	1000RPM	150million	0.02 N·m	Metal	4mΩ

### Specifications

PART #	OD * L	SIGNAL/2A	4A	8A	15A	TOTAL WIRES
MC400	22mm*40mm	24	0	0	0	24
MC400-P0304-S18	22mm*40mm	18	3	0	0	21
MC400-P0604-S12	22mm*40mm	12	6	0	0	18
MC400-P0804-S08	22mm*40mm	8	8	0	0	16
MC400-P0308-S08	22mm*40mm	8	0	3	0	11
MC400-P0408-S04	22mm*40mm	4	0	4	0	8
MC400-P0508	22mm*40mm	0	0	5	0	5
MC400-P0215-S06	22mm*40mm	6	0	0	2	8
MC400-P0315	22mm*40mm	0	0	0	3	3

### Shared Specifications

Wires	Max 24(see table as above)	Current	Signal(2A), Multiple 2A
Voltage	240 VDC/VAC	Max speed	250RPM
Overall diameter	22mm(0.87")	Length	40mm(1.57")
Contact Material	Precious Metal:gold-gold	Contact Resistance	<150mOhm(AWG28#, 250mm)
Housing Material	Plastics	Torque	0.04N.m
Working life	50million	Electrical noise	<10mΩ
Dielectric strength	600VDC@50Hz	Lead Wire	UL Teflon® Awg28
Insulation resistance	1000MΩ@500VDC	Lead Lengths	250mm
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical vibration	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free, RoHS compliant	CE Certified	YES

Notes:

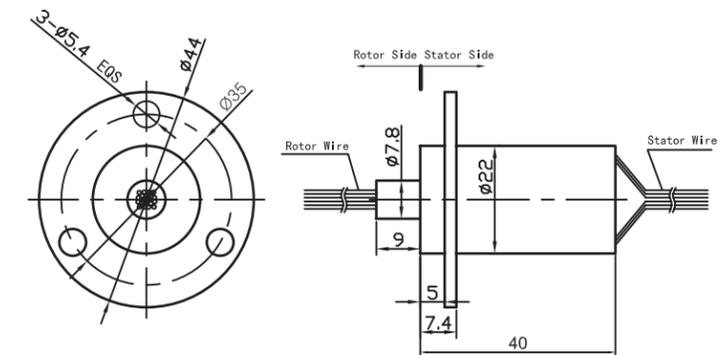
1)The operational life of the unit is dependent upon rotational speed, environment and temperature.

2)Lead Wire size: 2A/signal -> AWG28, 4A -> AWG22, 8A -> Awg16, 15A -> Awg14, colored code.

3)Electrical noise is dependent upon the rotating speed and current, voltage.

### Drawings

#### Standard drawings:



### Lead wire Color codes

Rings#	Color Code	Rings#	Color Code	Rings#	Color Code
1	BLK	9	GRY	17	WHT YEL
2	BRN	10	ORN	18	WHT GRN
3	RED	11	PINK	19	WHT BLU
4	ORN	12	AZURY	20	WHT PURPLE
5	YEL	13	WHT BLK	21	WHT GRY
6	GRN	14	WHT BRN	22	CRY STAL
7	BLU	15	WHT RED	23	BLK RED
8	PURPLE	16	WHT ORG	24	WHT BRN

### Options

- ▶ MC4009 is the high-end version corresponding to MC400.
- ▶ Optional flange mounting.
- ▶ Specified connectors and Heat-shrink tube.
- ▶ Longer lead lengths available.
- ▶ High temperature is optional.
- ▶ Military Grade.

### Application

#### Typical Application

- ▶ CCTV Monitoring System.
- ▶ Electrical test equipment.
- ▶ Medical equipment.
- ▶ Rotary table
- ▶ Robotics
- ▶ Laboratory equipmen
- ▶ Manufacturing and process control equipment
- ▶ and so on...
- ▶ if you want to use this series slip ring on your mechanism, pls contact us for more application: [technical@moflon.com](mailto:technical@moflon.com)

## MC573 Slip Rings

OD 22.00mm(0.87"), Length 57.3mm(2.26") ,36 Wires\*2A(signal)

MC573 slip rings are small and compact with OD 22mm \* L 57.3mm, with capsule style, 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.

MC5739 is the high-end version corresponding to MC573, See difference as below:

	Max Speed	Working life	Torque	Housing Material	Electrical noise <sup>①</sup> @10Rpm
MC573	150RPM	50million	0.08 N·m	Plastics	10mΩ
MC5739	600RPM	150million	0.03 N·m	Metal	4mΩ



### Specifications

PART #	OD*L	SIGNAL/2A	4A	8A	15A	TOTAL WIRES
MC573	22mm*57.3mm	36	0	0	0	36

### Shared Specifications

Wires	36(see table as above)	Current	Signal(2A)
Voltage	240 VDC/VAC	Max speed	150RPM
Overall diameter	22mm(0.87")	Length	57.3mm(2.26")
Contact Material	Precious Metal:gold-gold	Contact Resistance	<150mOhm(AWG28#,250mm)
Housing Material	Plastics	Torque	0.08N.m
Working life	50million	Electrical noise	<10mΩ
Dielectric strength	600VDC@50Hz	Lead Wire	UL Teflon® Awg28
Insulation resistance	1000MΩ@500VDC	Lead Lengths	250mm
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical vibration	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free,RoHS compliant	CE Certified	YES

Notes:

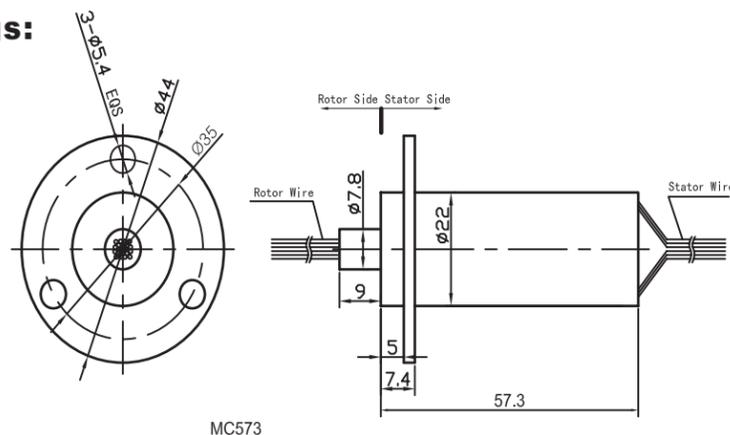
1)The operational life of the unit is dependent upon rotational speed, environment and temperature.

2)Lead Wire size: 2A/signal -> AWG28, 4A -> AWG22, 8A -> Awg16, 15A -> Awg14, colored code.

3)Electrical noise is dependent upon the rotating speed and current,voltage.

### Drawings

#### Standard drawings:



MC573

### Lead wire Color codes

Rings#	Color Code	Rings#	Color Code	Rings#	Color Code
1	BLK	9	GRY	17	WHT YEL
2	BRN	10	ORN	18	WHT GRN
3	RED	11	PINK	19	WHT BLU
4	ORN	12	AZURY	20	WHT PURPLE
5	YEL	13	WHT BLK	21	WHT GRY
6	GRN	14	WHT BRN	22	CRY STAL
7	BLU	15	WHT RED	23	BLK RED
8	PURPLE	16	WHT ORG	24	WHT BRN

\* Notes: Repeat from 1~24

### Options

- ▶ MC5739 is the high-end version corresponding to MC573.
- ▶ Optional flange mounting.
- ▶ Specified connectors and Heat-shrink tube.
- ▶ Longer lead lengths available.
- ▶ High temperature is optional.
- ▶ Military Grade.

### Application

#### Typical Application

- ▶ CCTV Monitoring System.
- ▶ Electrical test equipment.
- ▶ Medical equipment.
- ▶ Rotary table
- ▶ Robotics
- ▶ Laboratory equipmen
- ▶ Manufacturing and process control equipment
- ▶ and so on...
- ▶ if you want to use this series slip ring on your mechanism, pls contact us for more application:[technical@moflon.com](mailto:technical@moflon.com)

## MC857 Slip Rings

OD 25.00mm(0.97"), Length 85.7mm(3.37") ,56 Wires\*2A(signal)

MC857 slip rings are small and compact with OD 22mm \* L 85.7mm, with capsule style, 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.

MC8579 is the high-end version corresponding to MC330, See difference as below:

	Max Speed	Working life	Torque	Housing Material	Electrical noise① @10Rpm
MC857	100RPM	50million	0.15 N·m	Plastics	10mΩ
MC8579	300RPM	150million	0.05 N·m	Metal	4mΩ



### Specifications

PART #	OD * L	SIGNAL/2A	4A	8A	15A	TOTAL WIRES
MC857	25mX85.7mm	56	0	0	0	56

### Shared Specifications

Wires	56(see table as above)	Current	Signal(2A)
Voltage	240 VDC/VAC	Max speed	100RPM
Overall diameter	25mm(0.98")	Length	85.7mm(3.37")
Contact Material	Precious Metal:gold-gold	Contact Resistance	<150mOhm(AWG28#,250mm)
Housing Material	Plastics	Torque	0.15N.m
Working life	50million	Electrical noise	<10mΩ
Dielectric strength	600VDC@50Hz	Lead Wire	UL Teflon® Awg28
Insulation resistance	1000MΩ@500VDC	Lead Lengths	250mm
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical vibration	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free,RoHS compliant	CE Certified	YES

Notes:

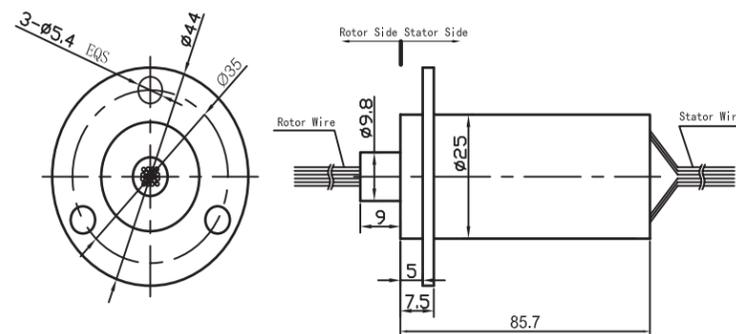
1)The operational life of the unit is dependent upon rotational speed, environment and temperature.

2)Lead Wire size: 2A/signal -> AWG28, 4A -> AWG22, 8A -> Awg16, 15A -> Awg14, colored code.

3)Electrical noise is dependent upon the rotating speed and current,voltage.

### Drawings

#### Standard drawings:



MC857

### Lead wire Color codes

Rings#	Color Code	Rings#	Color Code	Rings#	Color Code
1	BLK	9	GRY	17	WHT YEL
2	BRN	10	ORN	18	WHT GRN
3	RED	11	PINK	19	WHT BLU
4	ORN	12	AZURY	20	WHT PURPLE
5	YEL	13	WHT BLK	21	WHT GRY
6	GRN	14	WHT BRN	22	CRY STAL
7	BLU	15	WHT RED	23	BLK RED
8	PURPLE	16	WHT ORG	24	WHT BRN

\* Notes: Repeat from 1~24

### Options

- ▶ MC8579 is the high-end version corresponding to MC857.
- ▶ Optional flange mounting.
- ▶ Specified connectors and Heat-shrink tube.
- ▶ Longer lead lengths available.
- ▶ High temperature is optional.
- ▶ Military Grade.

### Application

#### Typical Application

- ▶ CCTV Monitoring System.
- ▶ Electrical test equipment.
- ▶ Medical equipment.
- ▶ Rotary table
- ▶ Robotics
- ▶ Laboratory equipmen
- ▶ Manufacturing and process control equipment
- ▶ and so on...
- ▶ if you want to use this series slip ring on your mechanism, pls contact us for more application:[technical@moflon.com](mailto:technical@moflon.com)