

MC190 Capsule Slip Rings



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, it has higher performance and longer working life, higher speed rotating speed, low noise.

Part# Explanation

MC 190(9)-FL01

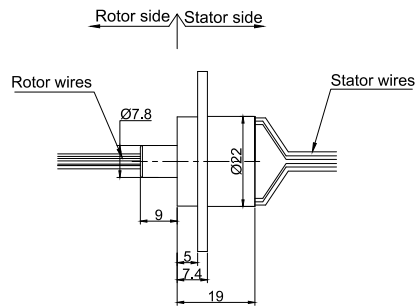
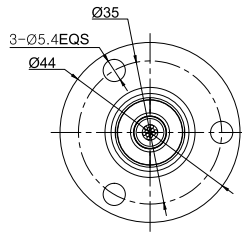
MC : capsule slip ring

190 : common quality version
1909 : high-end quality version

FL01: flange type

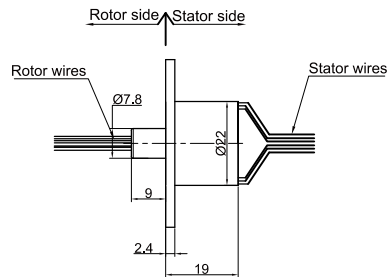
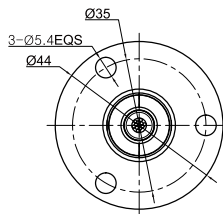
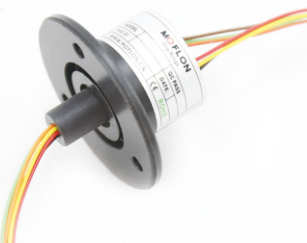
Standard Model

MC190

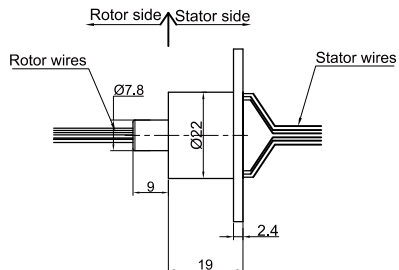
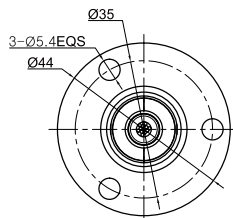
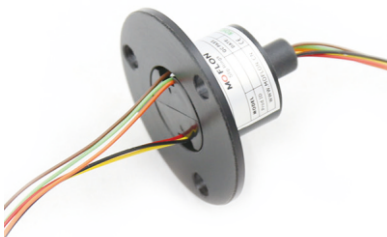


Optional Flange Model

MC190-FL01

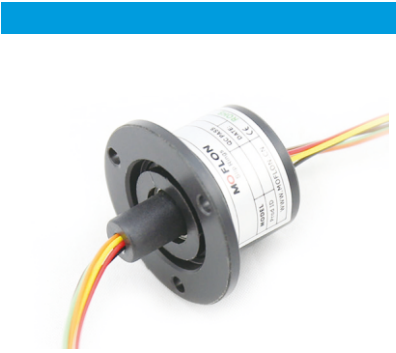
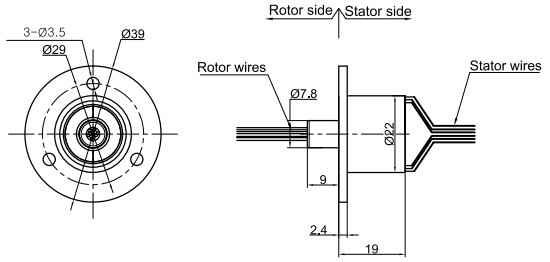


MC190-FL02

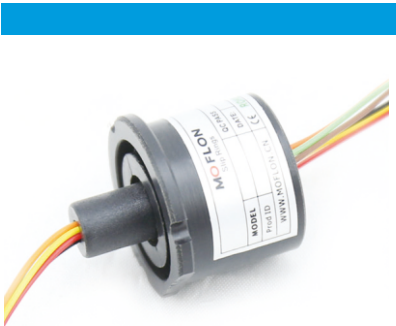
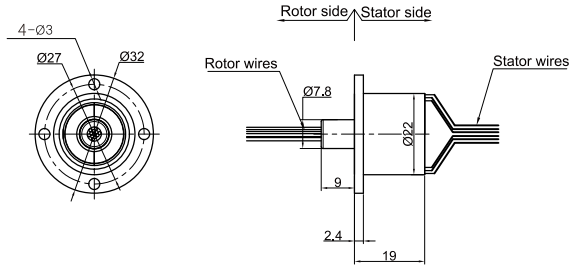




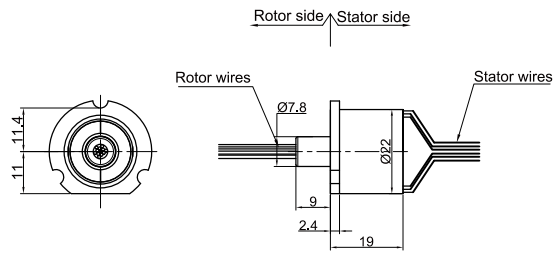
MC190-FL03



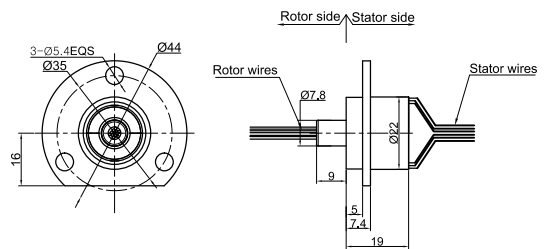
MC190-FL04



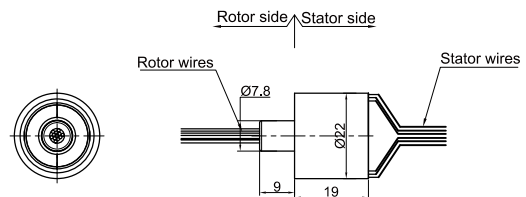
MC190-FL05



MC190-FL06



MC190-FL07



Part# List

MC190 Series Parts# List					
Part#	Signal/2A	4A	8A	15A	Total Wires
MC190	6	0	0	0	6
MC190-P0204-S02	2	2	0	0	4
MC190-P0304	0	3	0	0	3
MC190-P0108-S02	2	0	1	0	3

Note: N channels 2A rings parallel can be used as 1 channel $N \times 2A$ current. For example: 2 rings 2A parallel could be used as 1 wires 4A ,please contact sales for special requirements

Specification

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	$\geq 100M\Omega/500VDC$	$\geq 100M\Omega/500VDC$
Lead Wires	AWG#28 teflon	AWG#28 teflon
Lead Length	Standard 300mm(adjustable)	
Electrical Noise	<0.01 Ω	
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 Materia	See Product Quality Level Table	
Torque	0.05N.m; +0.01N.m/6rings	
Protection grade	IP51	

Product Quality Level Table

Part#	Max Speed	Working Life	Tourque	Housing Material	Electrical Noise①@10RPM
MC190	250RPM	10 million	0.02 N·m	Plastics	10m Ω
MC1909	1000RPM	20 million	0.005 N·m	Metal	4m Ω

Lead Wires Color Code

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

Options for custom slip ring

- 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.