

BS190 CAPSULE SLIP RINGS

BS190 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. BS1909 is the high-end version corresponding to BS190, It has higher performance and longer working life, higher speed rotating speed, low noise.

Product images



The pictures are for reference only

If there are changes in the appearance and size of the product, the actual product should prevail.

Part# Explanation

BS 190(9) - FL01

BS: Capsule slip ring

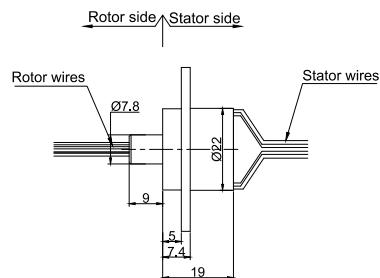
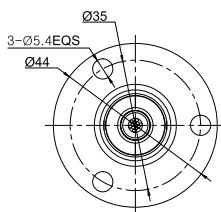
190: Common quality version

1909: High-end quality version

FL01: Flange type

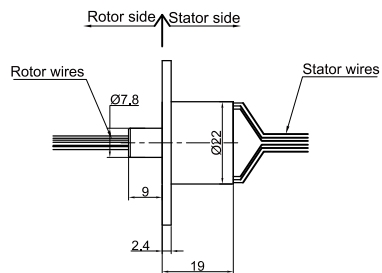
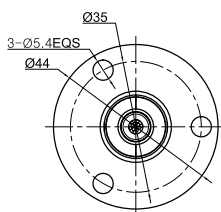
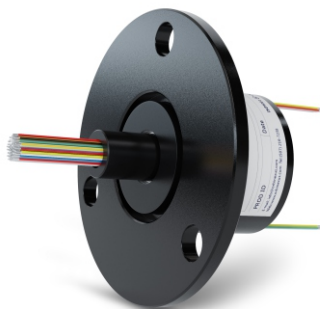
Standard Model

BS190

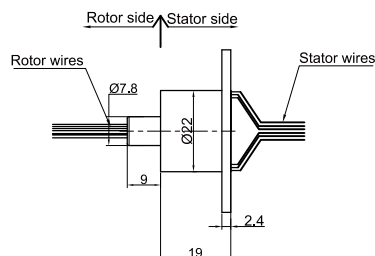
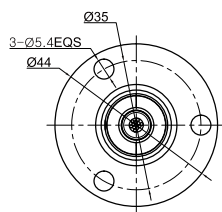


Optional Flange Model

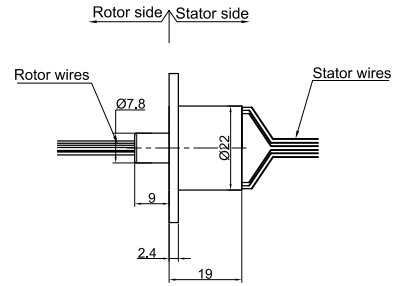
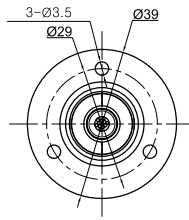
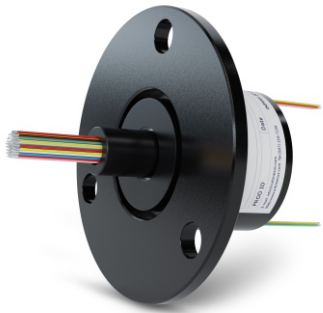
BS190-FL01



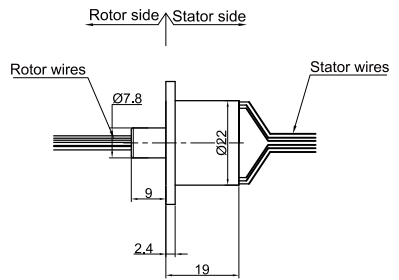
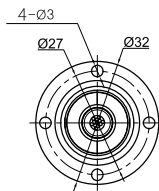
BS190-FL02



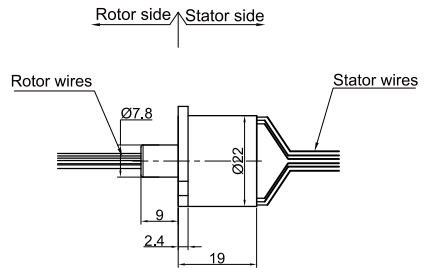
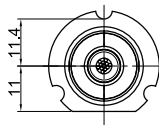
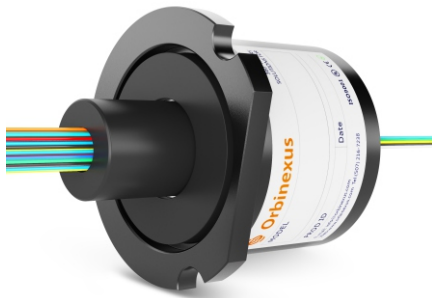
BS190-FL03



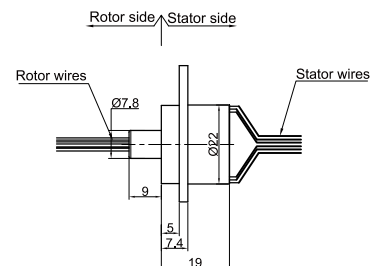
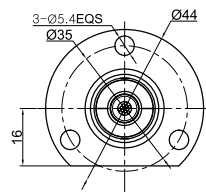
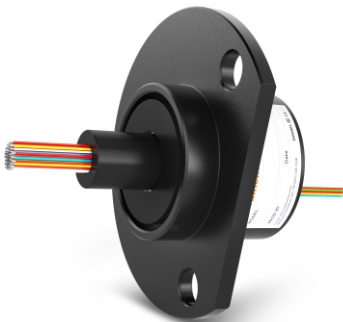
BS190-FL04

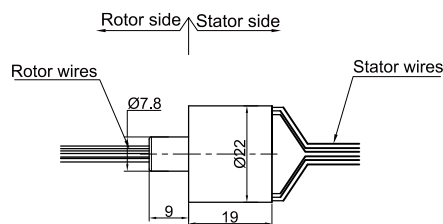
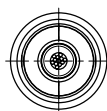


BS190-FL05



BS190-FL06





BS190 Series Parts# List

Parts#	Signal/2A	4A	8A	15A	Total Wires
BS190	6	0	0	0	6
BS190-P0204-S02	2	2	0	0	4
BS190-P0304	0	3	0	0	3
BS190-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

Mechanical Data

Project	Numerical 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

Electrical Data

Project	Numerical value	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	$\geq 100M\Omega/500VDC$	$\geq 1000M\Omega/500VDC$
Lead Wires	AWG28# teflon	AWG28# teflon
Lead Length	Standard 300mm(adjustable)	
Electrical Noise	<0.01 Ω	

Product Quality Level Table

Part#	Max Speed	Working Life	Tourque	Housing Material	Electrical Noise①@10RPM
BS190	250RPM	10 million	0.02 N·m	Plastics	10mΩ
BS1909	1000RPM	20 million	0.005 N·m	Metal	4mΩ

Lead Wires Color Code

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

Options for custom slip ring

1. BS1909 is the high-end version corresponding to BS190.
2. Optional flange mounting.
3. Specified connectors and Heat-shrink tube.
4. Longer lead lengths available.
5. High temperature is optional.
6. Military Grade.