

Capsule Slip Ring LPC-18H

This unit can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power or data from a stationary to a rotating structure. It is also called a rotary electrical interface, commutator, collector, swivel or an electrical rotary joint.



The LPC-18H capsule slip ring is a standard, off-the-shelf unit that uses gold contacts at the rotary interface. Color-coded lead wires are used on both the stator and rotor for simplifying electrical connections. Using a 90° V-groove ring design for each ring, the LPC-18H provides smoother running, lower torque and lower electrical noise than competitive slip rings. It is available in 6, 12, 18 circuit models.

Specifications

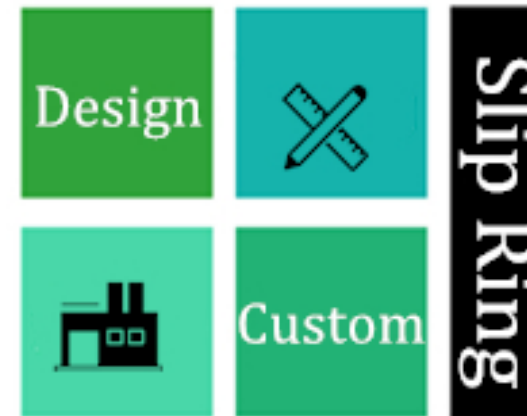
Operating Speed	0-300 rpm
Number of Circuits	18
Voltage	240 VAC/DC
Current Rating	2 amps per circuit
Temperature Range	-20°C to +60°C
Contact Material	Gold to Gold
Lead Size	28# silver plated copper
Lead Length	Standard 250 mm (9.843inch)
Dielectric Strength	≥500 VAC @50Hz, between each circuit
Insulation Resistance	100 MΩ @ 500 VDC
Electrical Noise	1mΩ Min

Capsule Length

# of Circuits	L (mm)	Part No
18	33.4	LPC-18H

- ◆ The operating life of the unit depends upon temperature, rotation speed and environment.
- ◆ The operating life ≥50,000,000 runs ref.

Features



- ✓ 18 circuits models
- ✓ 2 amps per circuit ,240VAC/DC
- ✓ Speed up to 300 rpm continuous
- ✓ Gold-gold contacts
- ✓ Compatible with data bus protocols
- ✓ Sealed units are also available
- ✓ Flexible, color-coded, silver-plated, insulated lead wires
- ✓ Transfer analog and digital signals
- ✓ Also available with 5 and 10 amps power rings combined with 2 amps rings.
- ✓ Precision ball bearings meet or exceed life requirements for most commercial applications

Applications

- ✓ Electrical test equipment
- ✓ Manufacturing and process control equipment
- ✓ Indexing tables
- ✓ CCTV pan / tilt camera mounts
- ✓ Robotics, rotary sensors, urgent illumination equipment
- ✓ Exhibit / display equipment/Closed-circuit control
- ✓ Aviation ,military ,instrument, medical equipment.
- ✓ Min-type wire-rolling machine / Wind turbine generator





TEMPERATURE RANGE
-20° C to 60° C



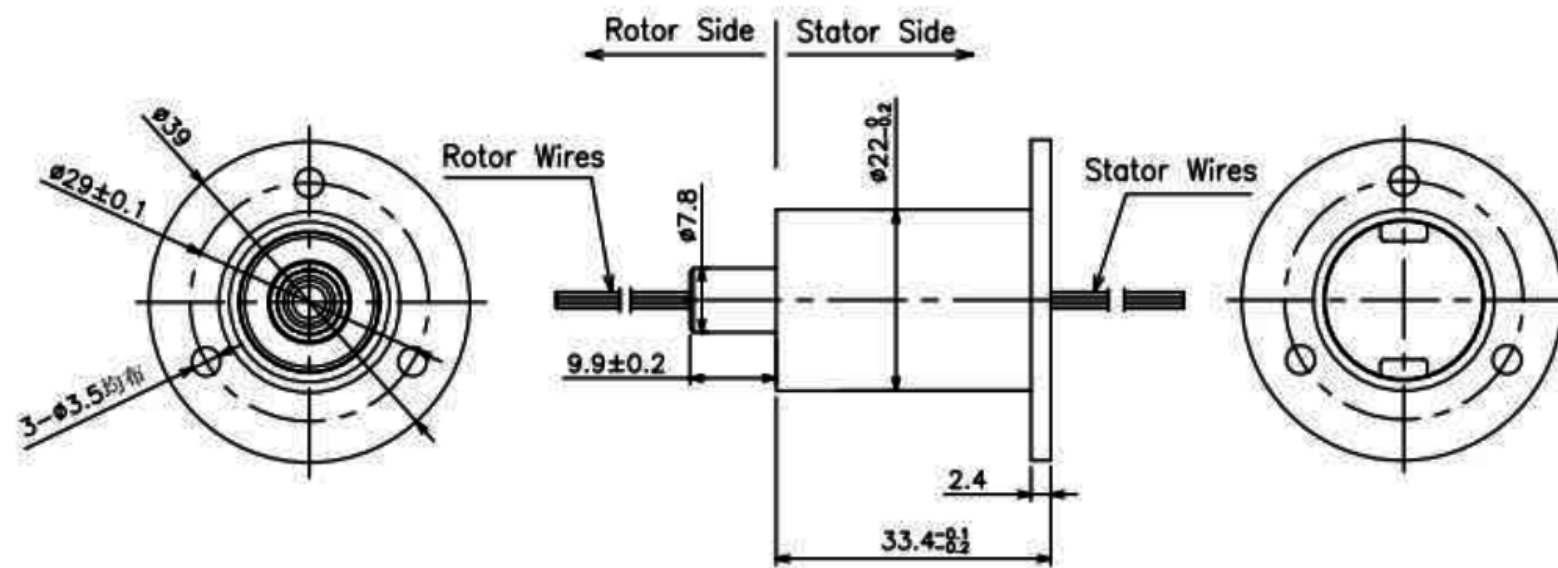
MAXIMUM OPERATING SPEED
0-300 RPM

Advantage



- ✓ Low torque minimize system torque budget
- ✓ Compact design to fit in the most demanding space.
- ✓ Smooth running
- ✓ Low electrical noise
- ✓ Quick shipment per your urgent requirement
- ✓ 360 continuous rotation
- ✓ High bandwidth transfer capability
- ✓ Addition of special components
- ✓ Quick shipment

Drawings



MESSAGE

Any questions about slip ring, please leave your message to get a professional solution

Wire Color Code								
Wire Size	Ring #	Color	Ring #	Color	Ring #	Color	Ring #	Color
AWG17# silver plated copper Teflon UL	#1	BLK	#2	BRN	#3	RED	#4	ORG
	#5	YEL	#6	GRN	#7	BLK-BLU	#8	PUR
	#9	GRAY	#10	WIT	#11	PINK	#12	AZURY
	#13	WIT/BLK	#14	WIT/BRN	#15	WIT/RED	#16	WIT/ORG
	#17	WIT/YET	#18	WIT/GRN	#19	WIT/BLU	#20	WIT/PUR
	#21	WIT/GRAY	#22	CLAR	#23	BLK-RED	#24	BLK/BRN

Remarks: 1. AWG28# silver plated copper Teflon UL, 24 different color single wires for a circle
2. #1 from rotor side (The color if the wire can be changed).

Contact us on wire color codes

PRODUCT CATEGORY

- FORJ
- Capsule slip ring
- Through bore slip ring
- Pancake slip ring
- Mercury slip ring
- Separate slip ring
- Miniature slip ring
- Wind turbine slip ring
- Hydraulic slip ring
- Pneumatic slip ring
- Coaxial rotary joints

REQUESTS

- Circuits
- Current&voltage
- Signal details
- Dimension
- Working speed
- Working temperature
- Operating Environment
- Other

INDUSTRIES

- Surveillance
- Crane
- Medical
- Marine
- Defence
- Radar antenna
- Automation
- Meter and instrument
- Wind turbine generator
- VR Device
- Other



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