LPC Capsule Slip Rings



Electrical & Electronics		Mechanical		Environmental	
Number of Circuits	1-125 or more	Rotating Speed	0-300rpm or higher	Temperature	Industrial: -20℃~+60℃
					Military: -50℃~+80℃
Current	≥2A each circuit	Contact Material	Gold-to-gold	Humidity	60%RH or higher
Voltage	240VAC/DC	Housing Material	Engineering Plastics/ Metals (optional)	Protection Grade	IP40
Dielectric Strength	≥500VAC@50Hz	Torque	≤0.88 g.m (for reference)	Others	
Insulation Resistance	≥100MΩ@500VDC	Wire Type	AWG28#Teflon or others	Life Span	Customizable
Dynamic Contact Resistance	1mΩ min.	Wire Length	250mm (optional)		

Brief Introduction

Standard middle-sized Capsule Slip Ring is able to integrate over 125 circuits, with optional outer diameter from 22mm~54mm. This series adopts advanced military-standard surface processing techniques, and is highly precise, compact and easy to assemble. Gold-to-gold contact ensures low resistance and super long service life. It is able to integrate various signals: Ethernet, USB, RS, LVDS, CAN bus, Fire Wire, SDI and HDMI, etc.

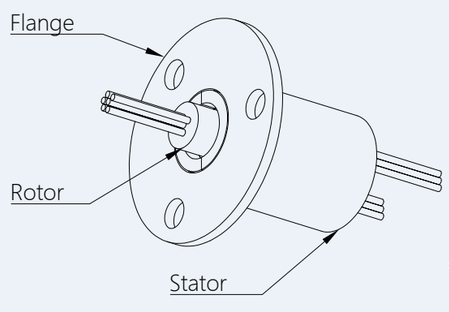
Features:
◎Military standard surface processing /Precise/Gold-to-gold contact/Low resistance/Long service life

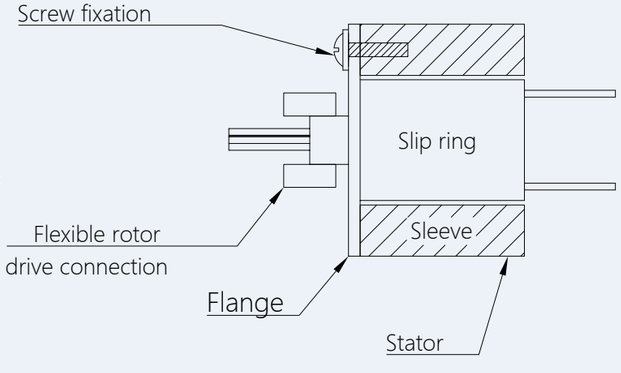
Options:
◎Rotating speed/Life span/Protection grade/Number of circuits/Current capacity/Size/Housing material/Mass production

Main applications:
◎High speed dome/Camera platform/Electrical testing equipment/Rotary table /Manufacturing and control equipment

Installation Specifications

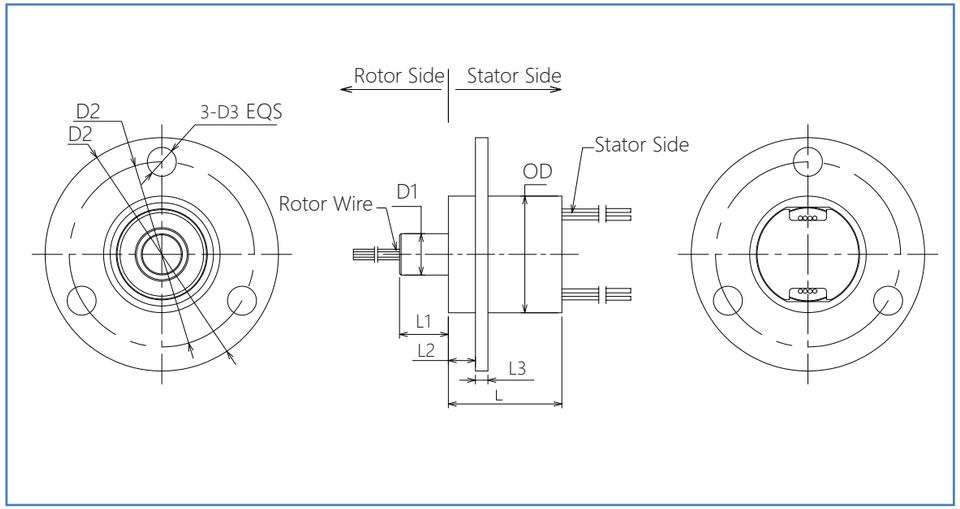
1. This series of slip ring has integrated flange on the stator side, can be mounted directly to the application or bracket to stabilize the stator.
2. Rotor should be mounted on the center axis of the application to ensure concentric drive. Rotor leads are not recommended to be used for drive purpose; otherwise, customers should carry out a close evaluation of their applications beforehand.
3. As demonstrated above, apply screw washers when installing the slip rings to avoid over-fastening of the flange and screws.
4. The slip ring is not designed to bear the weight of the equipment to which it is connected. Rotating equipment should be secured so that no axial or radial load is applied to the slip ring rotor.
5. The slip ring should be protected from dust and moisture. If applied outdoors, protection measures must be taken (except for Specific Custom Slip Rings).
6. Secure all leads so that they do not suffer friction and damage. Care should be taken when routing and securing the leads so that no side loading of the slip ring occurs.
7. Be careful not to damage the shield when stripping the wire ends.



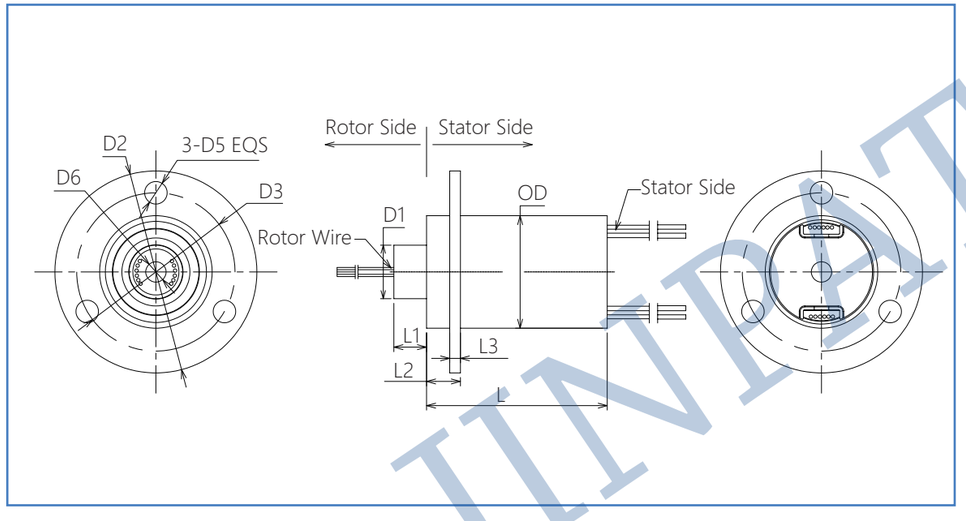


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LPC Capsule Slip Ring Outline Drawing



LPC-T Capsule Slip Rings with Through Hole



Wire Color Code

Wire Size	Ring	Color	Ring	Color	Ring	Color	Ring	Color
AWG28# Silver-Plated Teflon UL	#1	BLK	#2	BRN	#3	RED	#4	ORN
	#5	YEL	#6	GRN	#7	DK BLU	#8	PPL
	#9	GRY	#10	WHT	#11	PNK	#12	LT BLU
	#13	WHT/BLK	#14	WHT/BRN	#15	WHT/RED	#16	WHT/ORN
	#17	WHT/YEL	#18	WHT/GRN	#19	WHT/BLU	#20	WHT/PPL
	#21	WHT/GRY	#22	CLR	#23	BLK/RED	#24	BLK/TAN

LPC Capsule Slip Ring

Model	Number of Circuits	OD * Length (mm)	Voltage (AC/DC)	Current (A)	Rotor Outer Diameter (D1)	Flange Outer Diameter (D2)	Flange Mounting Hole Position (D3)	Flange Mounting Hole Inner Diameter (D4)	Via Diameter (D5)	Rotor Exposed Length (L1)	Flange Position (L2)	Flange Thickness (L3)
LPC-06	6	φ22*18.6	0~240V	2A	φ7.8	φ44.5	φ34.9	φ5.5	φ0	9.3	5	2.4
LPC-12	12	φ22*26.4	0~240V	2A	φ7.8	φ44.5	φ34.9	φ5.5	φ0	9.3	5	2.4
LPC-18	18	φ22*32.9	0~240V	2A	φ7.8	φ44.5	φ34.9	φ5.5	φ0	9.3	5	2.4
LPC-24	24	φ22*42.3	0~240V	2A	φ7.8	φ44.5	φ34.9	φ5.5	φ0	9.3	5	2.4
LPC-30	30	φ22*49.6	0~240V	2A	φ7.8	φ44.5	φ34.9	φ5.5	φ0	9.3	5	2.4
LPC-36	36	φ22*57.3	0~240V	2A	φ7.8	φ44.5	φ34.9	φ5.5	φ0	9.3	5	2.4
LPC-56	56	φ25*85.7	0~240V	2A	φ10	φ45	φ35	φ5	φ0	9.5	5	2.5
LPC-76	76	φ35.5*105.7	0~240V	2A	φ15	φ55	φ46	φ5.4	φ0	12.4	6.2	2.5
LPC-125	125	φ54*200	0~240V	2A	φ22.8	φ80	φ69.5	φ5.5	φ0	16	10	5
LPC-06YT	6	φ24.8*32.5	0~240V	2A	φ11.8	φ44.5	φ34.9	φ5	φ6.4	7.2	5	2.4
LPC-12YT	12	φ24.8*39.8	0~240V	2A	φ11.8	φ44.5	φ34.9	φ5	φ6.4	7.2	5	2.4
LPC-24YT	24	φ24.8*54.8	0~240V	2A	φ11.8	φ44.5	φ34.9	φ5	φ6.4	7.2	5	2.4
LPC-30YT	30	φ24.8*62.3	0~240V	2A	φ11.8	φ44.5	φ34.9	φ5	φ6.4	7.2	5	2.4
LPC-36YT	36	φ24.8*68.5	0~240V	2A	φ11.8	φ44.5	φ34.9	φ5	φ6.4	7.2	5	2.4
LPC-08YS	8	φ22*23	0~240V	2A	φ9	φ44.5	φ34.9	φ5.5	φ4.5	7	5	2.4
LPC-15YS	15	φ22*34	0~240V	2A	φ7.8	φ44.5	φ34.9	φ5.5	φ0	9.7	5	2.4
LPC-24YS	24	φ22*53.2	0~240V	2A	φ7.8	φ44.5	φ34.9	φ5.5	φ0	9.7	5	2.4

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