LPC Series—Capsule Slip Rings

JINYU Electronics
Jinyu Electronics

LPC series is a group of Capsule Slip Rings of compact design manufactured by JINYU, with the outer diameter of 22.5mm and 22.5 circuits at most. Such electrical sensors are designed perfects for transmitting signals and power. Based on the mature and stable technical performance and the continuous improvement of the products, the new series have, introduced gold plating technology from international partners ensures a low electrical noise (mV-1mV). Both of the two sides precast an elevated performance of the product, and the product life cycle is more than 10 million times. The product is mainly used in the field of medical service a year while high-precision main line-control guarantee a high quality which can stand the test cycle life test. Since foundation in 1996, JINYU capsule slip rings have enjoyed a good reputation among customers at home and abroad.

Parameters

Electrical Specifications	
Circuits	2~22 circuits
Current Rating	2A(Max)
Dielectric Strength	500VAC/1min
Insulation Resistance	500VDC 100MΩ
Contact Resistance	20mΩ(Max)
Electrical Noise	1mV-5mV
Electrical Life	10 million times

Mechanical Specifications	
Housing Material	Aluminum
Shaft Material	Stainless steel
Bearing	Stainless steel
Shaft Seal	Rubber
Protection Level	IP65
Operating Temperature	-20~+70℃
Weight	120 g ±5

Electrical Connection	
Wire Length	300mm(Standard)
Wire Specification	22AWG
Wire Color	Refer to Wire Color Code

Lifetime	
Lifetime	10 million Revolutions (Under normal conditions)

Note: Specifications are subject to change without notice

Features & Benefits

- Supporting analog signal transmission
- Increased design cycle is around 300% and increase lifetime
- Low resistance contact with elevated performance and long life
- Customized outline dimensions, customization available
- Using various film with stable noise mitigation surface processing technology
- Many protections, rapid delivery

Application

LPC Series

Model	Outline drawing	Product
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LPC-007		
LPC-008		
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LPC-1000		

Note: Product pictures are for reference only, please refer to the drawing.

Wire Color Code

Wire Color	Red	Black	Yellow	Blue	Green	White	Orange	Purple
JINYU(PIN Sequence)	1	2	3	4	5	6	7	8
	9	10	11	12	13	14	15	16
	17	18	19	20	21	22	23	24
	A1	B1	C1	D1	A2	B2	C2	D2
	A3	B3	C3	D3	A4	B4	C4	D4
	A5	B5	C5	D5	A6	B6	C6	D6
	A7	B7	C7	D7	A8	B8	C8	D8
Remarks	Customers can also customize the wire color according to the actual situation.							

Installation Method

Use and Installation Instructions

1. Please read the instructions carefully before installation and use from a cleanse binder.
2. Make sure that the screw is in and of Rotating connecting material (such as rubber hose or nylon hose), cover series of rotor can be used as shoe at a rotation speed.
3. Using the following screw, screw, the screw with gasket is used for mounting the ring, which can avoid foreign matter entering the bearing.
4. The slip ring overall bear weights of the connecting equipment, hence more devices should be installed up to avoid the weight being borne by the ring.
5. The slip ring should be protected from dust and moisture. For example, protective cover should be equipped when used in harsh environments.
6. The surface of all series should be protected from damaging when the equipment rotates, and all kinds of wires cannot bear weight when wires are arranged.
7. Don't damage the wire when loading and unloading the wire.