LPM — Miniature Capsule Slip Rings

JINYU Electronics
Your Trusted Partner

LPM series is a family of Miniature Capsule Slip Rings of compact size manufactured by JINYU with diameter from 6mm to 12mm. It is ideal for low cost, high reliability and long life applications. Made with gold-gold contact, such miniature slip rings are suitable perfectly for transmitting weak signal. It can transmit thousands of signals with a low contact resistance (mΩ level) and super long service life. All military standard raw materials permit a high temperature resistance and ensure a high-quality transmission of weak signals that sensor signal in a harsh environment. The electrical slip ring of LPM series can be used independently or combined with other slip rings to transmit power and signals. We have exported more than 20 years ago. Its quality and reliability have been certified over and over again and gained much recognition of global customers.

Parameters

Electrical Performance	
Contact Resistance	≤10mΩ
Insulation Resistance	≥500MΩ
Dielectric Withstand Voltage	100VAC/5S
Contact Rating	0.1A/60V
Contact Material	Gold-Gold
Life Cycle	10,000,000 Revolutions
Mechanical Performance	
Starting Torque	≤ 0.005N·M
Rotation Speed	0-300 RPM
Load Force	Axial 2N, Radial 2N
Vibration	10-2000Hz, 5G
Shock	50G, 11ms
Bump	25G, 6ms
Environmental Performance	
Operating Temperature	-20°C~+70°C
Storage Temperature	-40°C~+85°C
Humidity	40 - 85%
Material	
Housing	Stainless Steel
Shaft	Stainless Steel
Bearing	Stainless Steel
Wire	Teflon

Note: Specifications are subject to change without notice.

Features & Benefits

- SMT Welding Implemented of weak signal
- Compatible with slip ring protocol
- Smooth running, compact structure
- Low torque, extremely low contact resistance
- Long service life, customization available
- Large productivity, rapid delivery

Application

LPM Series

Model	Outline Drawing	Product
LPM-04A		
LPM-05A		
LPM-06B		
LPM-06C		
LPM-06D		
LPM-06E		
LPM-06G		
LPM-06H		
LPM-08B		
LPM-08C		
LPM-12A		
LPM-12B		
LPM-12C		
LPM-12G		
LPM-12I		
LPM-12F		
LPM-12J		
LPM-12H		
LPM-12K		
LPM-12L		
LPM-12M		
LPM-08F		
LPM-08D		
LPM-08E		
LPM-06F		
LPM-06I		
LPM-06J		
LPM-06K		
LPM-06L		
LPM-06M		
LPM-06N		
LPM-06AA		
LPM-06A		
LPM-06B		

Wire Color Code

Wire Size	Range	Color	Range	Color	Range	Color	Range	Color
AWG28	#1	Red	#9	Pink	#17	Black	#25	Brown
	#2	Orange	#10	White	#18	Gray	#26	Purple
AWG32AF Plated Wire	#3	Yellow	#11	Green	#19	Blue	#27	Light Green
	#4	Green	#12	Blue	#20	Yellow	#28	Light Blue
	#5	Blue	#13	Purple	#21	Orange	#29	Light Pink
	#6	Purple	#14	Light Green	#22	Red	#30	Light Yellow
	#7	Light Green	#15	Light Blue	#23	White	#31	Light Orange
	#8	Light Blue	#16	Light Pink	#24	Pink	#32	Light Red
Remarks	Contact us for more wire color combinations.							

Installation Method

Use and Installation Instruction

1. Take out of the series is tightened with a torque flange or a sleeve holder.
2. Under circuit short or low to a lack of insulation, the corresponding material (such as rubber hose or nylon tube), cover wires and connection points should be insulated.
3. As the following picture shows, the screw with gasket is used for mounting the slip ring, which can avoid flange being tightened too much.
4. The slip ring should be fixed on the weights of the connecting equipment, hence rotary devices should be tested up to avoid the weight being added on the rotor.
5. The slip ring should be protected from dust and moisture. For example, protective cover should be equipped with dust-tight or pressure-resistant.
6. The surface of all wires should be protected from damaging when the equipment creates, and all ends of wires should be protected from damaging and short circuit.
7. Don't damage wire when wires stripping with wire knife.

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