JINPAT Electronics
Since 1994

Super Miniature Capsule Slip Rings

LPMS series is a group of Super Miniature Capsule Slip Rings designed and manufactured by JINPAT, with the outer diameter of 5.5~11.1mm. It's designed exclusively for transmitting weak signals. Fairly compact size makes it fit for equipment where small space is presented. Gold-to-gold contact enables not only an excellent electrical conductivity, but also a low contact resistance and electrical noise (mini 1mΩ). Also, there is no surge kind of interference or data package loss in reliable signal transmission. The notable point lies in its ability of transmitting signals over 30 kinds, including Ethernet, USB, RS, LVDS, CANBUS, SDI, HDMI and so on. Besides the highly recognized off-the-shelf units, with a senior R & D Team, custom solution is available for customers worldwide.

Parameters

Electronic		Electric	
Circuits	1~12 circuits	Current Rating	1A per circuit
		Voltage Rating	48 VAC/DC or higher
Signal & Data Compatible	Gigabit Ethernet, USB2.0, LVDS, CANBUS, RS422, CC-Link, Interbus, DeviceNet, Profibus	Dielectric Strength	between-circuits:100 V@50 Hz
		Insulation Resistance	10 MΩ@100 VDC
		Electrical Noise	Min 1mΩ
Mechanical		**Environment**	
Operating Speed	0~300 RPM	Temperature	-20℃~+60℃
Contact	Gold to Gold	Humidity	60%RH
Lead Wire Size	AWG30#/32.F Silver Plated Teflon UL	IP	IP54
Wire Length	250 mm	Life	5 million turns
Torque	≤0.5gf.m		

*Custom solution is available for customers' actual needs.

Features & Benefits

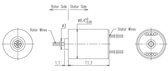
- Transmitting analog and data signal
- Loading standard module while transmitting power and signal
- Grooved design, smooth rotation and low electrical noise
- Multiple contacts per circuit, low contact pressure, low wear debris
- Advanced fiber brush technique, maintenance free
- Long life span, customization available
- Mass production, rapid delivery

LPMS Series

LPMS-08A

Capsule Length (L)

Circuit: 8
Length (mm): 11.7

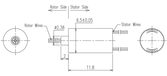


Wire Code								
Wire Size	Ring#	Color	Ring#	Color	Ring#	Color	Ring#	Color
AWG30# Silver Plated Teflon UL	#1	BLK	#2	BRN	#3	RED	#4	ORG
	#5	YEL	#6	GRN	#7	BLU	#8	PUR
Remark: #1 from the rotor side (the color of the wire can be changed /customized)								

LPMS-08C

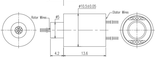
Capsule Length (L)

Circuit: 8
Length (mm): 11.8



Wire Code								
Wire Size	Ring#	Color	Ring#	Color	Ring#	Color	Ring#	Color
AWG30# Silver Plated Teflon UL	#1	BLK	#2	BRN	#3	RED	#4	ORG
	#5	YEL	#6	GRN	#7	BLU	#8	PUR
Remark: #1 from the rotor side (the color of the wire can be changed /customized)								

LPMS-10B



Capsule Length (L)

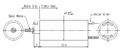
Circuit: 10
Length (mm): 13.6

Wire Code								
Wire Size	Ring#	Color	Ring#	Color	Ring#	Color	Ring#	Color
AWG30# Silver Plated Teflon UL	#1	BLK	#2	BRN	#3	RED	#4	ORG
	#5	YEL	#6	GRN	#7	BLK-BLU	#8	PUR
	#9	GRAY	#10	WIT				
Remark: #1 from the rotor side (the color of the wire can be changed /customized)								

LPMS-12B

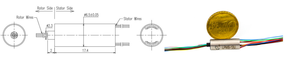
Capsule Length (L)

Circuit: 12
Length (mm): 17.4



Wire Code								
Wire Size	Ring#	Color	Ring#	Color	Ring#	Color	Ring#	Color
AWG32# Silver Plated 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
Remark: #1 from the rotor side (the color of the wire can be changed /customized)								

LPMS-12U



Capsule Length (L)

Circuit: 12
Length (mm): 17.4

*The model is restricted to metal capsule.

Wire Code								
Wire Size	Ring#	Color	Ring#	Color	Ring#	Color	Ring#	Color
AWG32# Silver Plated 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
Remark: #1 from the rotor side (the color of the wire can be changed /customized)								

Application

Thermal Imager

Robot for Sweeping

UAV

Camera Tripod