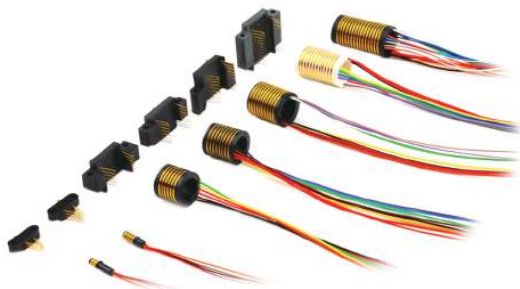




LPS Separate Slip Rings Series



● Features

- ◉ Separated stator and rotor/Transmit power and/or signal/
- Low contact resistance/Easy to install/Fit in limited space

Options:

- ◉ Working Speed/Number of Circuits/Current/Wire Length
- ◉ Shock-resistant, maintenance-free

Main Applications:

- ◉ Instruments, meters and measurement equipment
- ◉ Aviation, military and medical instruments
- ◉ Aerial camera platform, military/private UAV



● Technical specification parameters

| Electrical & Electronics | | Mechanical | | Environmental | |
|----------------------------|------------------|------------------|--------------------|------------------|-------------------------|
| Number of Circuits | 1~15 circuits | Rotating Speed | 0-100rpm or higher | Temperature | Industrial: -20°C~+60°C |
| | | | | | Military: -55°C~+80°C |
| Current | 1-3A per circuit | Contact Material | Gold-to-gold | Humidity | 60%RH or higher |
| Voltage | 0-24VAC/DC | Housing Material | / | Protection Grade | / |
| Dielectric Strength | ≥500VAC@50Hz | Torque | / | Others | |
| Insulation Resistance | ≥100MΩ@500VDC | Wire Type | / | Life Span | Customizable |
| Dynamic Contact Resistance | 1mΩ min. | Wire Length | 250mm (optional) | | |

● Selection table

| LPS Separate Slip Rings Series | | | | |
|--------------------------------|--------------------|-----------------|-------------|----------------------|
| Model | Number of Circuits | Voltage (AC/DC) | Current (A) | OD*Length (L) / (mm) |
| LPS-03C | 3 | 240V | 3-1A | φ3.8*11.43 |
| LPS-04C | 4 | 240V | 4-1A | φ4*10 |
| LPS-06C | 6 | 240V | 6-1A | φ14.73*13.2 |
| LPS-08C | 8 | 240V | 8-1A | φ14.5*15 |
| LPS-10C | 10 | 240V | 10-1A | φ15.73*17.3 |
| LPS-12C | 12 | 240V | 12-1A | φ14.7*23 |
| LPS-15C | 15 | 240V | 15-1A | φ14.73*27.6 |

● Our separate slip ring consists of a rotor and a brush stator. With a through hole in the rotor, this slip ring model is compatible with hydraulic channel, pneumatic channel and transmission shaft. Because of its separate design, separate slip ring is able to meet harsh requirements demanded by limited space and special installation in the customer's application. Pin contact is alternative for wire contact.

LPX XXX-XXXX-XXXX-XX - X X

- ⊗ Combination type:
- ⊗ HF for High Frequency,
- ⊗ FO for Fiber Optic
- ⊗ A for Air Over,
- ⊗ L for Liquid Over,
- ⊗ G for Oil Over

⊗ is the number of paths of the combined rotary couplings

- ⊗ Same signals are counted together, different signals are listed in wiring order; special signals (e.g. USB, Ethernet, IF) are listed at the end.
 U1/U2/U3: represent USB1.0 / 2.0 / 3.0 respectively
 E1/E2/E3: represent 10M / 100M / 1000M Ethernet respectively
 MF: represent IF signal (above 30MHz)
 Other signals are unified with S.

- ⊗ Number of rings and current, number of rings with the same current, if there are several groups with different currents, arranged by current from largest to smallest

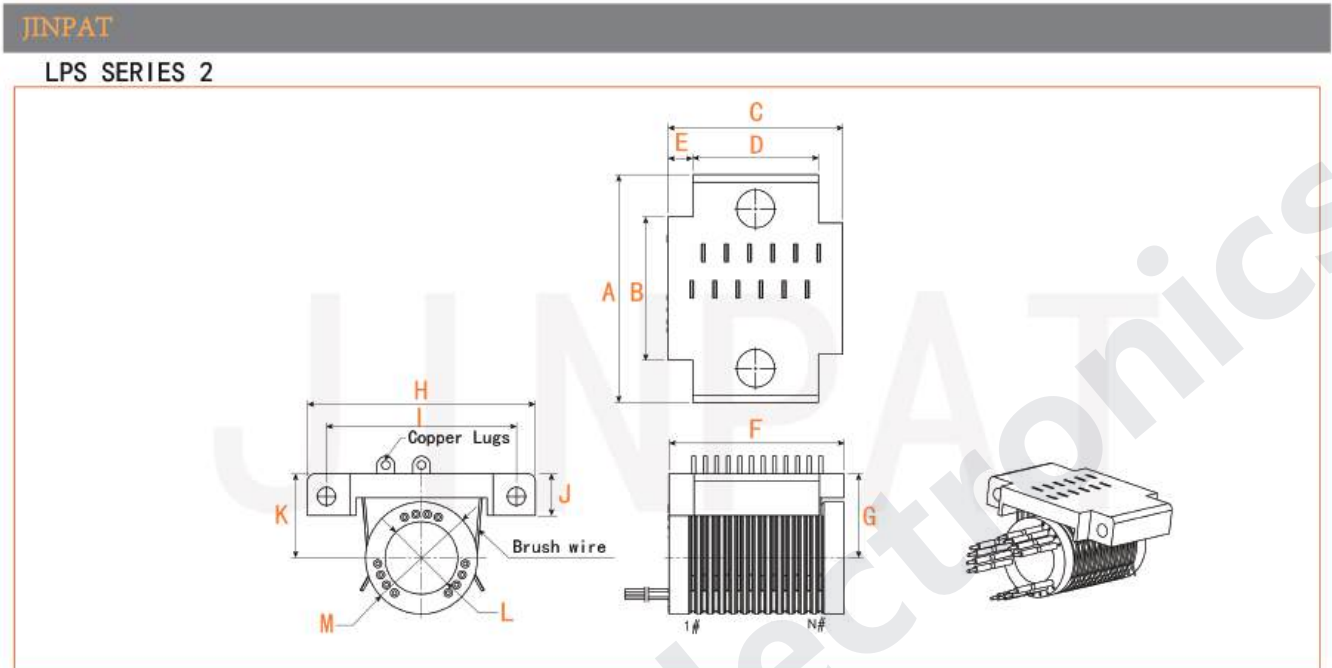
- ⊗ For through-hole or half-through-hole sizes, always round to the nearest whole number, or "000" for solids.

- ⊗ LPT: Standard Hollow Shaft Slip Rings / LPTS: Hollow Shaft Slip Rings for Heavy Machinery
 LPK: Integral Disk Slip Rings / LPKS: Separate Disk Slip Rings / LPS: Split Disk Slip Rings
 LPA: High Current Slip Rings / LPW: Wind Power Slip Rings

Product Selection Example Description

- Example 1: LPT025-0615-02U2
 → Hollow shaft slip ring, 25mm overbore, 6-way 15A current, 2 sets of USB2.0 signals
- Example 2: LPT000-0210-02E2FS-01A
 → Electrical combination hollow shaft slip ring, solid shaft (no bore), 2-way 10A current, 2 sets of 100Mbps Ethernet signals, with Waterproof (up to IP65), 1 channel over air

● Product Dimension Drawing



● Customization options

Note: The following special requirements can be customized, JINPAT most of the basic accessories are standardized, modular, non-standard customization can also greatly reduce the cost and delivery time.

- 1、 Customized rotor and stator outlet and outlet length
- 2、 Due to structural limitations, can be customized in accordance with the specified length or height or external diameter
- 3、 Yasukawa, Panasonic, Siemens and other servo system signals, power lines, and encoder lines mixed slip ring
- 4、 Mixed high-speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CANBUS, CANPUS). CANOPEN, DeviceNET, CC-LINK, ProPNET, EtherCAT and other types of industrial lines).
- 5、 Anti-shock, high temperature and other special environment customization
- 6、 Can be mixed with pneumatic, hydraulic rotary joints integrated pneumatic-electrical-hydraulic slip ring
- 7、 Military grade
- 8、 Waterproof, underwater mode optional, IP65, IP68 optional