

# LPT Through Bore - Standard





#### Features

- Transmit analog and digital signal
- The power and signal are mixed transmitted, and the signal categories are as follows:
- Ethernet: Rate (10Mbps/100Mbps/1000Mbps)
- ●Industrial Ethernet: EtherNet , EtherCAT ,ProPNet, Powerlink , SercosIII/IP, etc.
- OHD video: SDI, LVDS, etc.
- Serial communication: RS232, RS485, RS422, etc.
- Ouniversal Serial Bus: USB2.0
- ⊚Industrial Fieldbus: CANBus, ProÞBus, InterBus, CC-Link, DeviceNet, etc.
- Sensor signal: thermal resistance, thermocouple, strain gauge, etc.
- ©Long service life, maintenance-free
- ©Easy to install



## Technical specification parameters

Electrical & Electronics		Me	echanical	Environmental	
Number of	06/12/18/24	Rotating Speed	0~300rpm	Temperature	Industrial: -20°C~+60°C
Circuits					Military: -55°C∼+80°C
Current	5A(Signal)/10A/15A	Contact Material	Engineering plastic	Humidity	95%,100%RH or higher
Voltage	380VAC/DC	Housing Material	Aluminum	Protection Grade	IP50
Dielectric Strength	1000VAC@50Hz	Torque	≤0.1N.m/6 circuits, +0.03N.m/6 circuits	Others	
Insulation Resistance	≥500MΩ@500VDC	Wire Type	Teflon or others	Life Span	10 million (customizable)
Dynamic Contact Resistance	Min 1mΩ	Wire Length	rotor/stator: 300mm	тие зрап	



#### Selection table

LPT Standard Through-bore Slip Rings									
Model	ID (mm)	OD (mm)	Voltage	Current	Circuits	Rotating Speed (rpm)			
LPT012	φ12.7	φ53		5A/Signal	6~24	300			
		φ56	240VAC/DC	5A/Signal					
		1		10A 5A/Signal					
LPT025	φ25.4	φ86	240VAC/DC	10A	6~24	300			
			380VAC/DC	15A					
LPT038	φ38.1	φ99	240VAC/DC	5A/Signal	6~24	300			
				10A					
			380VAC/DC	15A					
LPT050		φ119	240VAC/DC	5A/Signal	6~24	300			
	φ50			10A					
	,			15A					
LPT060	φ60	φ135	240VAC/DC	5A/Signal	6~24	300			
				10A					
				15A					
LPT070	φ70	φ135	240VAC/DC	5A/Signal	6~24	300			
				10A					
				15A					
LPT080	φ80	φ160	240VAC/DC	5A/Signal	6~24	300			
				10A					
				15A					
LPT096	φ96	φ185	240VAC/DC	5A/Signal	6~24	300			
				10A					
				15A					
LPT120	φ120	φ207	240VAC/DC	5A/Signal	6~24	300			
				10A					
				15A					
LPT150	φ150	φ250	240VAC/DC	5A/Signal	6~24	300			
				10A					
				15A					
LPT180	φ180	φ298	240VAC/DC	5A/Signal	6~24	300			
				10A					

<sup>•</sup> The standard LPT models support the following signal types: serial communication, RTD signals, thermocouple signals, sensor signals, and encoder signals.

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<sup>•</sup> Note: For additional signal transmission types, such as Ethernet, USB, HDMI, DP, SDI, GMSL, CameraLink, MIPI, LVDS, analog HD video signals, and Peldbus, please contact us.



## LPX XXX- XXXX-XXX-XX - X X

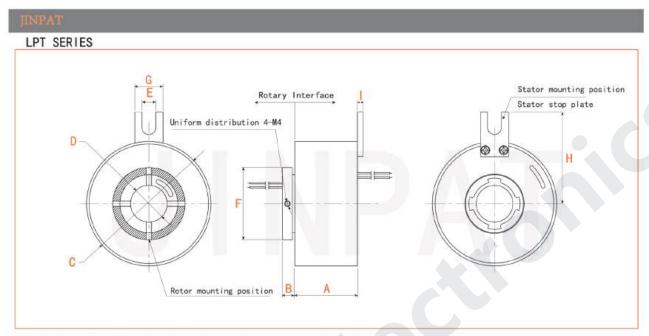
- Combination type:
- HF for High Frequency,
- FO for Fiber Optic
- A for Air Over,
- L for Liquid Over,
- G for Oil Over
- is the number of paths of the combined rotary couplings
- Same signals are counted together,
  different signals are listed in wiring order;
  special signals (e.g. USB, Ethernet, 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 uniÞed 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



Rotating interface: The point where the rotating part meets the stationary part.

## 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 speciPed 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, Profbus, Canbus, Candella, Candella,
- **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