Through Bore Slip Ring



Main Application

- Packaging / wrapping machinery
- Semiconductor handling systems
- Industrial machinery
- Exhibit Display machinery
- Medical equipment
- Rotary index tables
- Process control equipment
- Emergency lighting, robotics Palletizing machines,
- Heavy equipment turrets or cable reels

Option

- Placement of custom circuitry directly onto the unit
- Custom mechanical integration features
- Addition of specialist components
- Inclusion of coax and miniature data bus cables

Contact us to discuss your special needs

LPT070 Series Slip Ring with Through Bore 70mm

Description

A slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, collector, swivel or a commutation. A slip ring can improve system performance by simplifying operations and eliminating damage-prone wires dangling from movable joints.

The 70mm unobstructed through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount. The LPT070 uses our fiber brush technology which offers several advantages over conventional slip ring contacts including multiple points of contact per brush bundle, low contact force per fiber and low contact wear rates. In addition, fiber brushes do not require lubrication and produce virtually no wear debris. The LPT070 features field serviceable brush blocks.

Features

- 70 mm through-bore
- Compact 135mm outside diameter
- Modular design a single module can have: one 50 amps ring; two 30 amps rings; one, two or three 10 amps rings or six 5 amps signals
 Up to 20-50 amps circuits
- Speeds up to 500 rpm continuous
- Steel bearings and machined shaft and housing for harsh environments
- Collar mounting is standard; flange mounting is optional
- Various lead exits are available
- Silver plated rings are standard. Gold plated optional.
- Continuous 360 rotation of power or data signals
- Sealed unit

Advantage

- Transfers control and data signals
- Fiber brush technology provides maintenance-free operation (no lubrication required)
- Modular design meets special requirements through off-the-shelf manufacturing techniques
- Customized configurations for your application

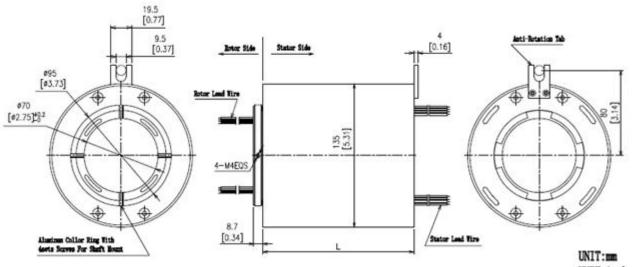
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Through Bore Slip Ring

Specification					
Circuits	1-24 circuits				
Operating Speed	0-500rpm				
Working Temperature	-20 °C∼ +60 °C				
Working Humidity	60%RH or higher				
Electrical:					
Voltage Rating	380VAC/DC or higher				
Current Rating	2A/5A/10A/15A per circuit				
Dielectric Strength	≥1000V@50Hz between each circuit				
Insulation Resistance	1000MΩ@ 500VDC				
Electric Noise	≤1mΩ Min				
Mechanical:					
Contact Material	Precious metal				
Lead Wire Length	Standard 300mm (11.811inch)				
Housing Material	Aluminum alloy				
Torque	≤9.25 g·m (for reference)				
Protection	IP54 or higher				

• The operating life of the unit depends upon temperature, rotation speed and environment.

 \blacklozenge The operating life $\,\geqslant\!50,\!000,\!000$ runs ref.



UNIT: inch

Through Bore Slip Ring

LThe length of through bore slip ring(mm)							
Part Number	Current/Circuit	6 circuits	12 circuits	18circuits	24 circuits		
LPT070(Inner diameter60mm)	5A	52.5	70.5	88.5	106.5		
	10A	56.7	78.9	101.1	123.3		
	15A	61.5	88.5	115.5	142.5		

Contact us on wire color codes