

Pan cake Slip Ring



LPKS-0205 Slip Ring
with Through Bore 46.0mm

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 commutator. A slip ring can improve system performance by simplifying operations and eliminating damage-prone wires dangling from movable joints.

The 46.0mm unobstructed through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount. The LPKS-0205 Pan Cake Slip Ring uses advanced 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.

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

Features

- ◆ 6mm THK
- ◆ Pancake separate PCB design
- ◆ Compact 82mm outside diameter
- ◆ 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

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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Specification

Circuits	2 circuits
Operating Speed	300rpm
Working Temperature	-20℃~ +60℃
Working Humidity	60%RH or higher
Electrical:	
Voltage Rating	380VAC/DC or higher
Current Rating	5A per circuit
Dielectric Strength	≥1000V@50Hz between each circuit
Insulation Resistance	1000MΩ@ 500VDC
Electrical Noise	1mΩ Min
Mechanical:	
Contact Material	Precious metal
Shaft Material	PCB
Shaft Diameter	Φ46mm
Lead Wire Size	Tinning AWG22
Lead Wire Length	Standard 300mm (11.81inch)
Torque	≤0.12 g·m (for reference)

Contact us on wire color codes

- ◆ The operating life of the unit depends upon temperature, rotation speed and environment.
- ◆ The operating life ≥50,000,000 runs ref.

