

## LPC-1F3002 Hybrid Rotary Joint

Hybrid Rotary Joints would be designed for the most demanding requirements and tested for those rugged environment and superb optical performance. All of materials and components have been selected to ensure the highest reliability in extreme conditions, including shock & vibration, working temperature, working humidity and dust. The design of these series has proven performance records in both industrial and military applications. Also the package can be configured to fit the customer's specific need.

Hybrid Rotary Joint are available in single and multi-channel options. The most cost and size efficient options are the single and dual channel design. If more than two fibers are present in a system, multiplexing solutions are available to combine multiple channels onto one or two fiber to allow the use of a one or two channels.

### Specifications

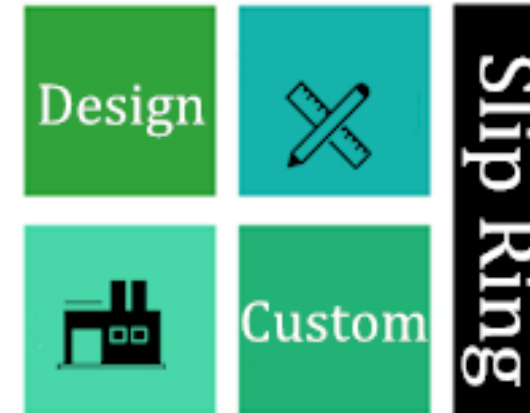
Operating Speed	0-240 rpm
Current Rating	2A/ Circuit
Voltage	240 VAC/DC
Circuits	1 Circuit Fiber/ 30 Circuits
Temperature Range	-40°C ~ +65°C
Start Torque	<0.01Nm
Lead Wire Size	AWG28 Silver Plated /300mm
Housing Materials	Aluminum Alloy
Dielectric Strength	500VAC@60Hz
Insulation Resistance	1000 MΩ @ 500 VDC
Electrical Noise	≤0.1Ω (Typical: 0.05Ω)

### Optical

Return Loss (SM )	Fiber Types	Connector Types
>40dB	SM/MM	FC/SC/ST/SMA /LC

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

## Features



- ✓ Ruggedized for harsh environments
- ✓ High return loss and low crosstalk
- ✓ Compact size and package
- ✓ High transmission rates and low resistance
- ✓ Wavelength Range is 1310/1550 nm (SM), 850/1310/1550 nm (MM)
- ✓ Insertion Loss Fluctuation is +/-0.25dB (Typical: +/-0.15dB)
- ✓ Variety of configuration options
- ✓ Custom designs available



TEMPERATURE RANGE  
-40° C to 65° C



MAXIMUM OPERATING SPEED  
0-240 RPM

## Applications

- ✓ Vehicle Turrets, Medical Systems
- ✓ Radar Antennas, Robotics Vehicles
- ✓ Security Systems, Material Handling Systems
- ✓ Sensor Platforms, Remotely Operated Vehicles
- ✓ Video Surveillance Systems
- ✓ Fiber Optic Cable Reels
- ✓ Marine Population Systems
- ✓ Wind Energy Turbines

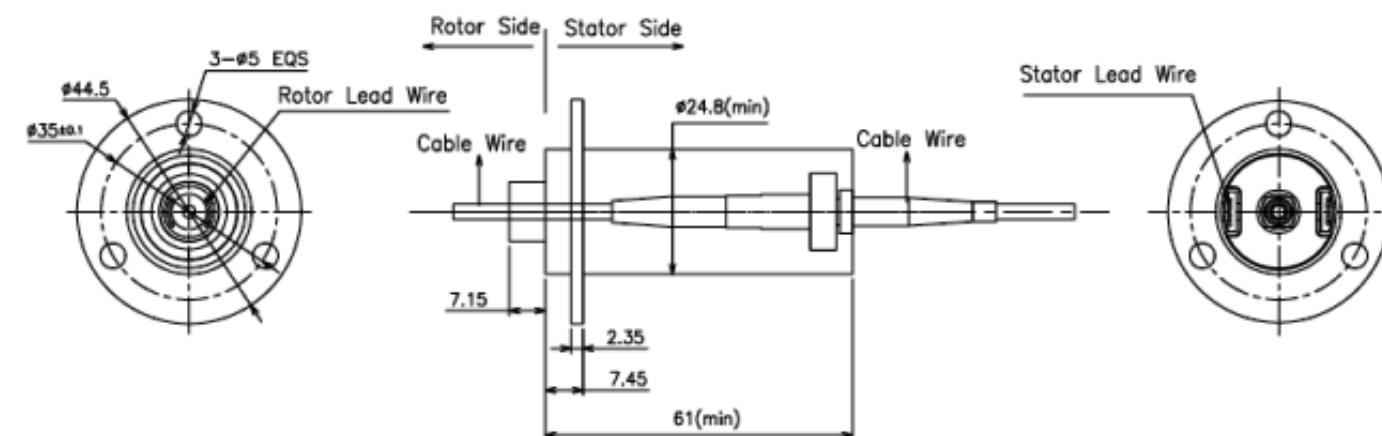


## Option



- ✓ Housing material/ Package style
- ✓ Over 200,200 hrs working life time
- ✓ Working in high shock environment
- ✓ Exceed 100km fiber data connector
- ✓ Integrated power channel and signal channel
- ✓ Single channel design and Muti channel design
- ✓ Single mode or Multimode & Single channel or Multichannel

## Drawings



## MESSAGE

Any questions about slip ring, please leave your message to get a professional solution

### PRODUCT CATEGORY

FORJ  
Capsule slip ring  
Through bore slip ring  
Pancake slip ring  
Mercury slip ring  
Separate slip ring  
Miniature slip ring  
Wind turbine slip ring  
Hydraulic slip ring  
Pneumatic slip ring  
Coaxial rotary joints

### REQUESTS

Circuits  
Current & voltage  
Signal details  
Dimension  
Working speed  
Working temperature  
Operating Environment  
Other

### INDUSTRIES

Surveillance  
Crane  
Medical  
Marine  
Defence  
Radar antenna  
Automation  
Meter and instrument  
Wind turbine generator  
VR Device  
Other

Contact us on wire color codes



Send