

## LPC-1F2402 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

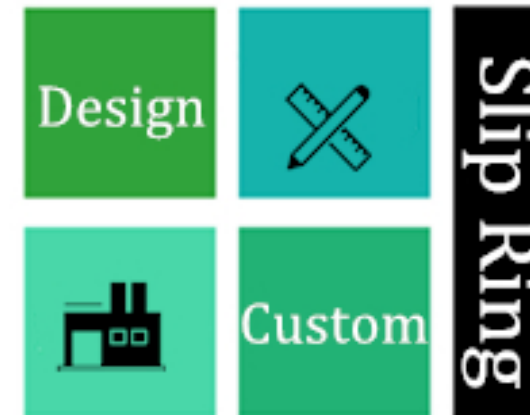
Operating Speed	0-240 rpm
Current Rating	2A/ Circuit
Voltage	240 VAC/DC
Circuits	1 Circuit Fiber/ 24 Circuits
Temperature Range	-40°C ~ +65°C
Start Torque	<0.01Nm
Lead Wire Size	AWG28 Silver Plated /300mm
Housing Materials	Aluminum Alloy
Dielectric Strength	500VAC@60Hz
Insulation Resistance	1000 MΩ @ 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

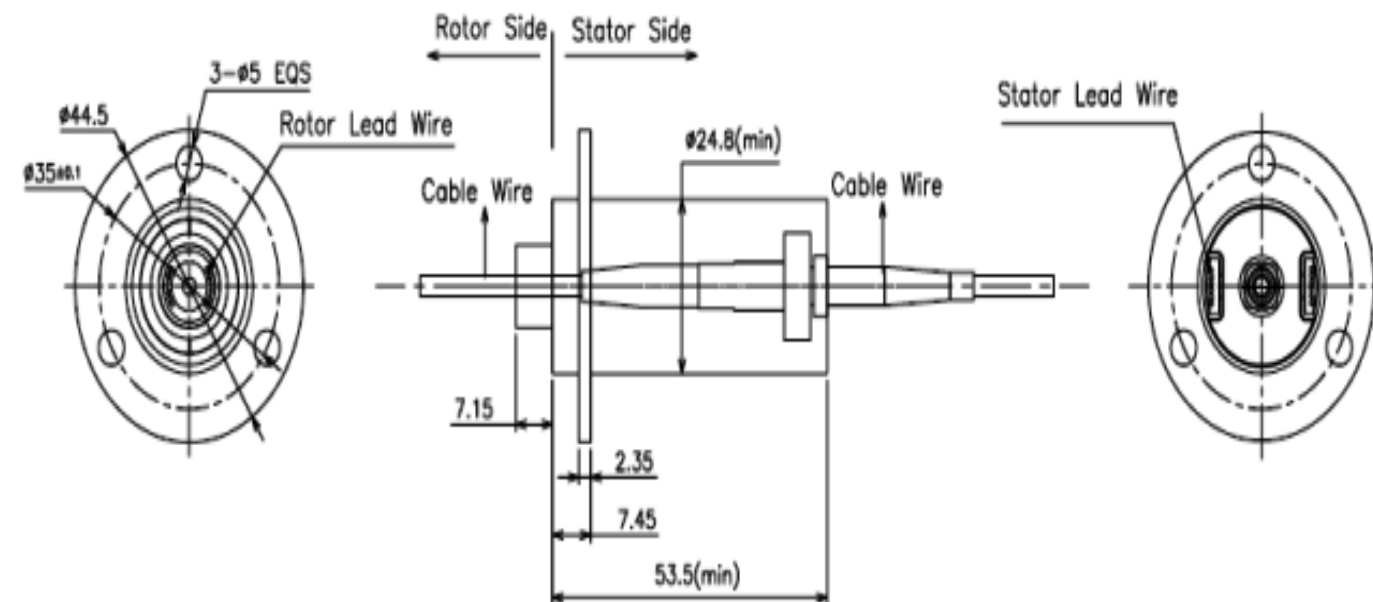


## Option



- ✓ 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

### Wire Color Code

Wire Size	Ring #	Color	Ring #	Color	Ring #	Color	Ring #	Color
AWG28# silver plated copper Teflon UL	#1	BLK	#2	BRN	#3	RED	#4	ORG
	#5	YEL	#6	GRN	#7	BLK-BLU	#8	PUR
	#9	GRAY	#10	WIT	#11	PINK	#12	AZURY
	#13	WIT/BLK	#14	WIT/BRN	#15	WIT/RED	#16	WIT/ORG
	#17	WIT/YET	#18	WIT/GRN	#19	WIT/BLU	#20	WIT/PUR
	#21	WIT/GRAY	#22	CLAR	#23	BLK-RED	#24	BLK/BRN

Remarks: 1. AWG28# silver plated copper Teflon UL, 24 different color single wires for a circle

2. #1 from rotor side (The color if the wire can be changed).

Contact us on wire color codes



Send