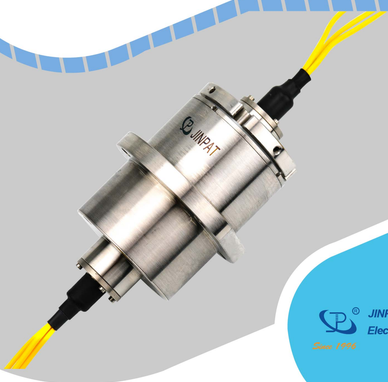
Fiber Optic Rotary Joints



JINPAT Electronics

Since 1998

LPFO series is a family of fiber optic rotary joints manufactured by JINPAT. Such slip rings feature optic fiber as the media for data transmission. The fiber connector is designed perfectly for transmitting a large capacity of data and signal from stationary to rotating parts. It has an extremely low insertion loss but considerably high return loss. Signal transmission of the rotary unions is achieved without leakage, electromagnetic interference in a long distance. Being dust and water tight, it can serve as a photoelectric integrated rotary joint. Besides, no contact or friction, it can achieve transmission in combination of various signals with a high bandwidth, even doubled when matched with wavelength division multiplexer. Working in a wide range of temperature, the part, with sturdy configuration and fine material, is vibration and shock resistant. Moreover, multi-channel parts provide single mode, multimode, and mixed mode for option. Small and light figure with built-in interface allows various package type and easy system upgrading. Besides, flexible customization of fiber wire terminal is available including FC/ SC/ ST/ LC fiber connectors. With a good reputation, more and more world-wide customers place their orders with JINPAT Electronics.

Features & Advantages

- Built-in interface supports quick plug-in with long distance transmission
- Small and light, optional mode, various package type
- Serving as photoelectric integrated unit
- High protection level
- Low insertion loss but high return loss
- Long service life
- High transmitting bandwidth, no leakage, no electromagnetic interference
- Flexible connector for fiber wire terminal, custom solution
- No contact, no friction
- Cost-effective, rapid delivery


Fiber optic connector


Fiber optic wires


Stainless steel housing


Lapping machine

Application


Robotics


Vehicle-borne Rotary Battery


Monitoring System


Naval Vessels

Model	Channel	Fiber Type	Wave Length (nm)	Insertion Loss (dB)	Insertion Loss Variation (dB)	Return Loss (dB)	Crosstalk (dB)	Max.Speed (rpm)	Conntector Type	Life	Size (mm)
LPHF-01A	1	SM&MM	650-1650	<2	<1	>40	/	2000	ST/FC/ SC/LC	2~400 million turns	Φ6.8/ Φ15.2*28
LPHF-01B	1	SM&MM	650-1650	<2	<1	>40	/	2000	ST/FC/ SC/LC	2~400 million turns	Φ6.8/ Φ10*28
LPHF-01C	1	SM&MM	650-1650	<3	<1	>30	/	2000	ST/FC/ SC/LC	2~400 million turns	Φ8.5*40
LPHF-01N	1	SM&MM	850-1550	<2	<1	>40	/	2000	ST/FC/ SC/LC	over 100 million turns	Φ12.7*34
LPHF-02A	2	SM&MM	850-1610	<5	<2	>45	>50	300	ST/FC/ SC/LC	over 100 million turns	Φ44*111
LPHF-02B	2	SM&MM	850-1550	:<4/6 (CH1/2)	<2	>45	>50	100	ST/FC/ SC/LC	over 100 million turns	Φ20*65
LPHF-02N	2	SM&MM	850-1550	<5	<2	>40	>45	400	ST/FC/ SC/LC	over 100 million turns	Φ67*123
LPHF-03A	3	SM&MM	850-1610	<2	<2	>45	>50	300	ST/FC/ SC/LC	over 100 million turns	Φ44*111
LPHF-03B	3	SM&MM	850-1610	<2	<2	>45	>50	200	ST/FC/ SC/LC	over 100 million turns	Φ67*122
LPFO-04N	4	SM&MM	850-1550	<5	<2	>40	>45	100	ST/FC/ SC/LC	over 100 million turns	Φ67*123
LPHF-07A	4-7	SM&MM	850-1610	<5	<2	>45	>50	300	ST/FC/ SC/LC	over 100 million turns	Φ44*136
LPHF-07B	4-7	SM&MM	850-1610	<5	<2	>45	>50	200	ST/FC/ SC/LC	over 100 million turns	Φ67*122
LPHF-08N	8	SM&MM	850-1550	<5	<2	>40	>45	400	ST/FC/ SC/LC	over 100 million turns	Φ67*149
LPHF-19A	8-19	SM&MM	850-1610	<5	<2	>45	>50	200	ST/FC/ SC/LC	over 100 million turns	Φ67*168
LPC-1F1202	1	SM&MM	650-1650	<2	<1	>40	/	300	ST/FC/ SC/LC	over 100 million turns	φ44.5*43
LPC-1F2402	1	SM&MM	650-1650	<2	<1	>40	/	300	ST/FC/ SC/LC	over 100 million turns	φ44.5*58
LPC-1F3002	1	SM&MM	650-1650	<2	<1	>40	/	300	ST/FC/ SC/LC	over 100 million turns	φ44.5*65.5

* The specification above might be subject to change prior to notice