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**FORJ: Two-channel plastic optical fiber (POF) rotary joint (PJ2 series)**

PJ2-650-01

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Plastic optical fibers (POF) possess a few important characters that make them favorite choices for certain short-distance fiber optic applications. Their large cores allow easy light coupling. Termination can be simplified to quick hot knife cutting or diamond turning. They are bend insensitive and do not fatigue easily.

Princetel's PJ2 series 2-channel FORJ connects two independent fiber channels simultaneously. They are blind-spot free during rotation and are ideal for machine control applications such as **SERCOS Interfaces**. The rugged design permits underwater usage. Damaged fibers can be easily replaced without costly repairs of the FORJ itself.

Check out our **MXn** series FORJs for multiple channel and GigaPOF based devices. For single-channel POF FORJs visit our **RPT** series page.

**SPECIFICATIONS**

PARAMETERS	VALUES
Wavelength	650 nm
Insertion loss	<7 dB/channel 1, <10 dB/channel 2 (premium: <7 dB)
Insertion loss WOW	<+/-1 dB/channel 1, <+/-1.5 dB/channel 2
Return loss	~40 dB
Crosstalk	>40 dB
Maximum speed	1000 rpm
Pulling strength	20 N
Start up torque	<0.2 Nm
Estimated life cycle	>200 million revolutions
Optical power handling	23 dBm
Working temperature	-40 to 85 C
Storage temperature	-50 to 85 C
Package style	Pigtails on both ends
Housing material	Stainless steel/Aluminum
Fiber types	PMMA step index, 1 mm core/2 mm jacket
Connector types	FC, ST, and SMA905
Dimensions	24 mm dia. x 130 mm length
Weight	~250 g
Vibration	MIL-STD-167-1A
Mechanical shock	MIL-STD-810G
<b>IP rating</b>	IP 68

**CREATE YOUR PART NUMBER**PJ2- [wavelength code](#)- [fiber code](#)- [connector code](#)**DOCUMENTS DOWNLOAD**

- [Download PDF drawing for PJ2](#)
- [Download 3-D drawing for PJ2](#)

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