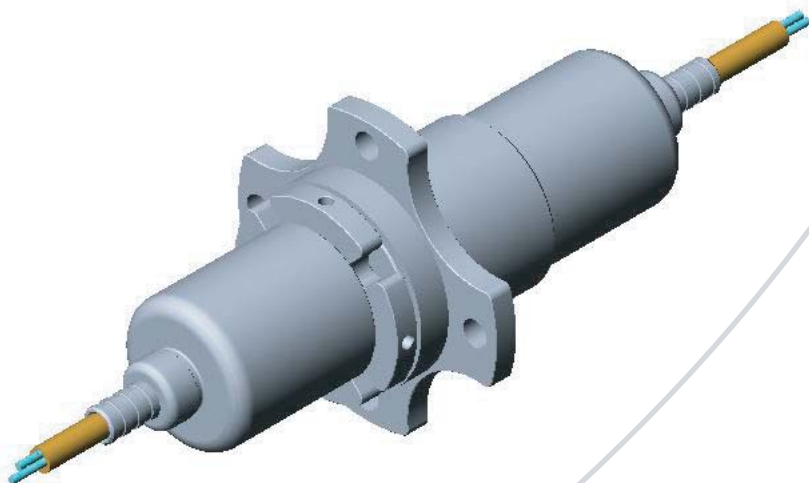


The logo for Princetel, featuring the company name in a white, italicized, sans-serif font on a blue square background.

Two-channel Fiber Optic Rotary Joint



www.princetel.com

Princetel, Inc.
4 Princess Rd Ste 209
Lawrenceville, NJ 08648
609.895.9890
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Two-channel Fiber Optic Rotary Joint

Description

Dual-pass Fiberoptic Rotary Joint (FORJ) connects two independent fiber channels simultaneously. It allows uninterrupted transmission of optical signals while rotating along the common mechanical axis.

Princetel offers a high-performance, two-channel FORJ that is the smallest and lightest on the market. Stainless steel construction and ceramic ball bearings make the device rugged, precise, stable, and long lasting. Our advanced packaging technology ensures that the device has the lowest insertion loss and the highest return loss performance available today.

Specification

Wavelength range available	850-1650 nm (See next page)
Insertion loss (MM)	<5 dB (3 dB typical)
Insertion loss (SM)	<5 dB (3 dB typical)
Insertion loss variation	<1 dB (typical)
Return loss (typical for SM)	>50/25 dB (Secondary/primary)
Cross talk (typical)	>30 dB
Maximum speed	100 rpm
Maximum fiber pulling force	10 N for 900 um buffered fiber
Optical power handling	23 dBm (Call for higher rating)
Working temperature	0 to 65 C
Storage temperature	-40 to 85 C

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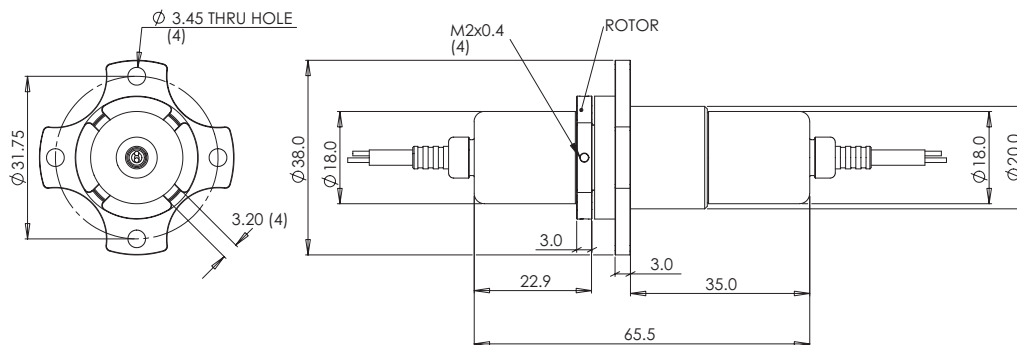


Two-channel Fiber Optic Rotary Joint

Physical Properties

Package type	Pigtailed
Package Material	Stainless steel 303
Fiber type	Singlemode or multimode, 1 m length
Jacket type	900 um buffer with 3 mm jacket, 0.8 m length
Connector type	FC/PC, SC/PC, ST, FC/APC, or SC/APC
Dimensions	See drawing below
Weight	~100 g

Mechanical



Unit: mm

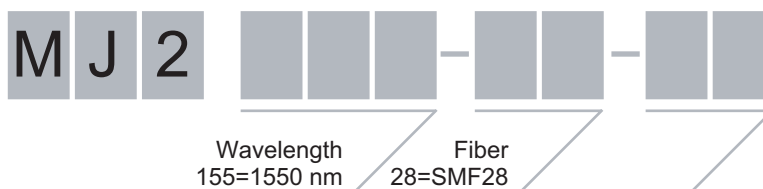
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Two-channel Fiber Optic Rotary Joint

Part Number



Wavelength
155=1550 nm

Fiber
28=SMF28

FC=FCPC
 FA=FCAPC
 SC=SCPC
 SA=SCAPC
 ST=ST

Wavelength and Fiber Code

Wavelength	Fiber
165=1625 nm	28=CorningSMF28 (1290-1650 nm)
162=1625 nm	13=Fujikura SM13 PANDA fiber
159=1590 nm	15=Fujikura SM15 PANDA fiber
155=1550 nm	56=3M FS-SN5624 (980 nm)
153=1530 nm	42=3M FS-SN4224 (850 nm)
148=1480 nm	32=3M FS-SN3224 (635 nm)
131=1310 nm	50=50/125 multimode
980=980 nm	62=62.5/125 multimode
850=850 nm	10=100/125 multimode
780=780 nm	20=200/240 multimode
670=670 nm	40=400/425 multimode
650=650 nm	60=600/630 multimode
635=635 nm	01=1000 um Mitsubishi plastic

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