



# **RJ2 Series Fiber Optic Rotary Joint**



[www.princetel.com](http://www.princetel.com)

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# RJ2 Series 2-channel Fiber Optic Rotary Joint

## Description

Dual-pass Fiberoptic Rotary Joints (FORJs) connect two independent fiber channels simultaneously. They allow uninterrupted transmission of optical signals while rotating along the common mechanical axis. Designed for both singlemode and multimode fibers, the RJ2 series FORJs feature enhanced stability and unmatched crosstalk performance (>55 dB). Pressure compensation is also available with this model. Both channels can accommodate either singlemode or multimode fibers. It is also possible to combine the two types of fibers in one device.

## Specification

Wavelength range available	850-1650 nm
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
Cross talk (typical)	>50 dB
Maximum speed	100 rpm
Maximum fiber pulling force	10 N
Optical power handling	23 dBm (Call for higher rating)
Working temperature	0 to 65 C
Storage temperature	-20 to 85 C
Pressure compensation	Call
Package Material	Stainless steel
Fiber type	Singlemode or multimode
Jacket type	900 um buffer with 3 mm jacket
Connector type	FC, SC, ST, MTRJ, or LC
Dimensions	44 mm dia. x 83 mm length
Weight	550 g

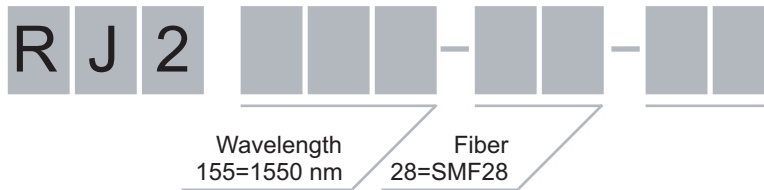
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## Part Number



Pressure compensation: Add "PC" after "RJ2".

- FC=FC/PC
- FA=FC/APC
- SC=SC/PC
- SA=SC/APC
- ST=ST
- LC=LC/PC
- LA=LC/APC

## 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

## Mechanical

