



**PRODUCTS**

- [Fiber Rotary Joints](#)
- [Electric Slip Rings](#)
- [Fiber Components](#)
- [Fiber Polishers](#)
- [Cable Reels](#)

**SERVICES**

- [Fiber Termination](#)
- [Outdoor Fiber Patchcords](#)
- [Laser Pigtailling](#)
- [Training](#)

**SOLUTIONS**

- [Sliprings](#)
- [RF Rotary Joints](#)
- [Fluid Rotary Unions](#)
- [Multiplexers](#)
- [Media Converters](#)






Powered by

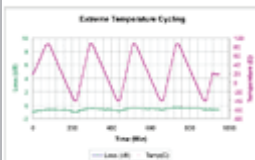
609.588.8801 609.895.9552

**FORJ: Fiber optic rotary adapters (RFCX Series)**



RFCX-155-28

[CLICK for larger view](#)



IL temperature cycling

[CLICK for larger view](#)

RFCX series Fiber Optic Rotary Adapters (FORAs) are uniquely designed to have the identical cross sections and mounting features as their standard bulkhead adapter counterparts, sometimes also called mating sleeves. FORAs allow the fiber to rotate freely while maintaining uninterrupted transmission of the optical signal. Princetel's FORAs can be a pop-in replacement for FC bulkheads. Similar to MJX and R series, the RFCX Series FORJs contain fluid, which ensures condensation free operation at extreme low temperatures. It is also ideal for high humidity environments.

Similar to other Princetel's single-channel FORJs, the RFCX model features low insertion loss and small loss variation during rotation (wow). Return loss can reach as high as >40 dB depending on the conditions of the mating connectors. Well conditioned connectors can also result in typical losses of around 1 dB. They are rugged, sealed for dust and moisture, and can operate under temperature extremes (See insertion loss temperature cycling plot on the left).

**SPECIFICATIONS**

PARAMETERS	VALUES
Wavelength range	650-1650 nm
Insertion loss	<3 dB
Insertion loss ripple	<0.5 dB (typical: 0.3 dB)
Return loss (SM)	>30 dB (typical: 40 dB)
Maximum speed	2,000 rpm
Start up torque	<0.01 Nm
Estimated life cycle	200-400 million revolutions
Optical power handling	5 mW/standard; 23 mW/optional
Working temperature	-40 to 85 C
Storage temperature	-50 to 85 C
Package style	FC receptacle (FC/APC option not available currently)
Housing material	Stainless steel
Fiber types	Singlemode or multimode
Connector format	FC/PC
Mounting method	Flange identical to FC bulkhead
Weight	19 g
Vibration	MIL-STD-167-1A
Mechanical shock	MIL-STD-810G
<b>IP rating</b>	<b>IP 68</b>

**CREATE YOUR PART NUMBER**

RFCX- wavelength code- fiber code

**DOCUMENTS DOWNLOAD**

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