

Mini Fiber Optic Rotary Joint (FORJ)



Description:

Fiber Optic Rotary Joints are very common and crucial component for interfacing fiber optic and copper infrastructure segments at moving environment like Radar systems or rotating equipment cabinets.

MJX series of extremely compact and light rotary joints provide perfect solution for space sensitive applications.

With wide operating temperature range, dust, and water resistant design MJX series are perfect for harsh environment applications.

Combined with our wide range of optical converters and multiplexers it provides complete cost effective solutions.

Features:

- > SM or MM channels
- > Compact size
- > Low insertion loss and high return loss
- > Dust and water tight for harsh environments
- > Wide operating temperature range

Applications:

- > Oceanographic Winches for Seismic Exploration streamers.
- > Wind Generators.
- > Filler Machines.
- > Food Packaging Machines.
- > Radar Systems.
- > Industrial Robots.
- > Perimeter Surveillance Radar Systems.
- > Rotating Exhibit and display Equipment.

Specifications and Dimensions:

Characteristics	Value
Line wavelength	650-1650nm
Fiber type	MM or SM w/3mm jacket (Kevlar/PVC)
Fiber Connector	SC/LC/FC/ST/SMA
Insertion loss	<2dB (<0.5dB typical)
Insertion loss ripple	+/-0.25 dB (+/-0.15dB typical)
Return loss (SM)	>40dB (typical 45 dB)
Pressure compensation	1000 psi
Pulling strength	10N
Startup torque	<0.01Nm
Maximum speed	2000rpm
Est. Life cycle	200-400M revolutions
Max Optical Power	23dBm
Housing material	Stainless steel
IP Rating	IP68
Weight	10g

Ordering Information:

Q-MJX__ __

Fiber Type		Connector Type
SM	Multi-mode	ST
MM	Single-mode	SC
		LC
		FC

Example: **Q-MJXSMST** – MJX FORJ, Single-mode fiber ST Connectors