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 609.588.8801

 609.895.9552

FORJ: Multi-channel fiber optic rotary joint (MXn series, SM & MM)


MX2-155-28

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MX2FC-155-28

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FORJ catalog
Product selection guide

MXn series multi-pass Fiberoptic Rotary Joints (FORJs) are the most compact multi-channel products. They connect 2-3 (Model MXnS) or 4-7 (Model MXn) independent fiber channels simultaneously. They are ideal when combined with electrical slip rings or RF rotary joints or when space is tight in general. Though extremely small they still feature low crosstalk performance (<-60 dB for singlemode and multi-mode fibers). All channels can accommodate either singlemode or multimode fibers. It is also possible to combine the two types of fibers in one device.

SPECIFICATIONS

PARAMETERS	VALUES
Wavelength	1270-1610 nm for SM; 850 and 1310 nm for MM
Insertion loss	<5 dB (typical: 2-3 dB)
Insertion loss ripple	~±0.5 to 1 dB
Return loss (SM)	>45 dB
Crosstalk	>50 dB (typical: 63 dB)
Chromatic dispersion	<0.01 ps/nm
Polarization mode dispersion	<0.01 ps
Maximum speed	300 rpm
Pulling strength	10 N
Start up torque	<1 Nm
Estimated life cycle	100-200 million revolutions
Optical power handling	23 dBm
Working temperature	-20 to 65 C
Storage temperature	-25 to 75 C
Package style	Pigtails or receptacles (FC or ST; up to 3 channels)
Housing material	Stainless steel
Fiber types	SM or MM w/3 mm jacket (Kevlar/PVC or armor)
Connector types	FC, SC, ST, SMA, LC or /APCs
Dimensions	44 mm dia. x 136 mm length
Weight	~1.5 kg
Vibration	MIL-STD-167-1
Mechanical shock	MIL-STD-810F
IP rating	Up to IP 65

CREATE YOUR PART NUMBER

MXnS (n=2-3) or MXn(n=4-7)- wavelength code- fiber code- connector code

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