

FIBERFOX Rotary Joint

The FIBERFOX Rotary Joint is an expanded beam multimode solution with fits to standard optical ST connections. It is suitable for a wide range of industrial applications where rotation is a challenge, including robotics, renewable energy (wind turbines) and government (radar stations). The innovative design ensures maximal flexibility and high data rates in rotating systems.

Benefiting from the expanded beam technology and the precision optical alignment the system allows high rotation speed and many revolutions.



Features & Benefits

- ✓ Rotor supported by double deep groove ball bearings

- ✓ IP56 protection - two hermetically dust-tight chambers sealed by shaft seals
- ✓ Extremely long service life with 500 million revolutions
- ✓ Extremely service-friendly
- ✓ Easy integration with common ST patch Cords
- ✓ Reflective coated optics for wavelengths from 850nm to 1300nm
- ✓ Robust and compact design with stainless steel parts

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Order code	Product code	Description
1028479	NORJ50M3-FX	FIBERFOX Rotary Joint 50um D42x60 OM3 ST/ST
1028485	SCRJ-FX	Sealing cover for ST Rotary Joint Connector D14x73.50

Technical Information

Product	
Title	FIBERFOX Rotary Joint

Mechanical	
Rotation speed	Max. 5500 rpm
Lifetime	500 Mio. revolutions
Outer diameter	Ø 42mm
Stator outer diameter	Ø 32mm
Rotor diameter	Ø 25.5mm
Total length	60.2mm
Weight	230 g

Material	
Shell	Stainless steel
High performance grease	LGHP 2 (SKF)

Environmental	
Protection Class	IP56
Temperature range	-40° C to +75° C

Optical	
Insertion Loss – regular	Typ. 1.0dB / Max. 1.5dB
Insertion Loss - @30 rpm	≤ 1.0dB
Optical connector	ST