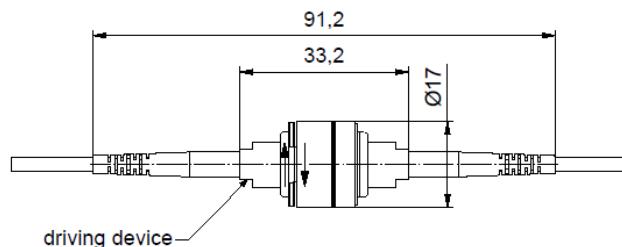


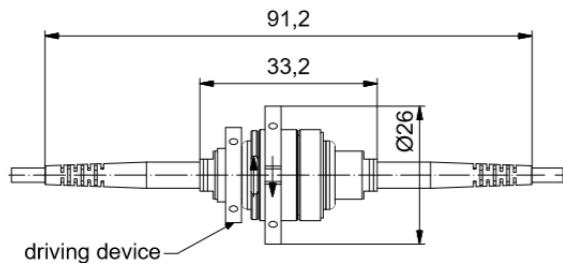
Single-Channel Fiber Optic Rotary Joints (FORJ) 1.17

The SPINNER single-channel FORJ 1.17 is ideal for applications "above water" in humid or dirty environments. It uses the optimized optical system of the 1.14, therefore shows excellent optical values. Due to its descent from the 1.17PC (which is equipped with a pressure compensation system and was developed for deep sea up to 10,000 m), the 1.17 has particularly robust properties. It is made of a saltwater-resistant hardened steel and features IP68 sealing thanks to a built-in rotary seal. It meets high requirements in terms of shock and vibration resistance and is also resistant to moisture associated with seawater. The 1.17 FORJ is ideal when exposed to the weather or installed in a machines with lubricants. It is therefore often used in wind power or in the marine and offshore sectors.

SPINNER FORJ 1.17

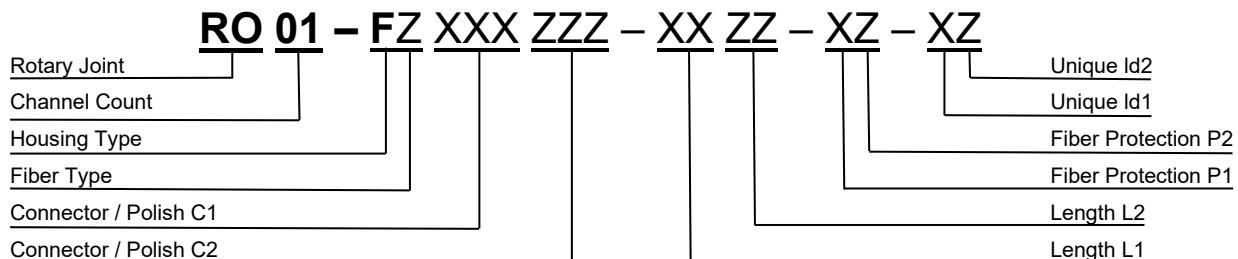


SPINNER FORJ 1.17 with SPINNER FLEXIFLANGE



Single-Channel Fiber Optic Rotary Joints (FORJ) 1.17

Standard series part number explanation



Rotary Joint	Fiber Optic	Channel Count	Housing Type	Fiber Type	Connector Polish C1	Connector Polish C2	Length L1	Length L2	Fiber Protection P1 / P2	Unique ID1	Unique ID2				
R	O	01	-	F	Z	-	XXX	ZZZ	-	XX	ZZ				
Ø 17 mm (1.17) IP68				F											
Single-mode E9 / 125 (standard OS1)					S										
Single-mode SMF28 Ultra					U										
Multi-mode G50 / 125 (standard OM2)					M										
Multi-mode G62.5 / 125					N										
Special fiber (e.g. G657, HI1060, etc.)					X										
Connector Type C1 & C2															
Single Mode Connector / Polish	Multi Mode Connector / Polish														
LC / APC (Standard)					LCA	LCA									
LC / UPC					LCU	LCU									
	LC / PC				LCP	LCP									
FC / APC					FCA	FCA									
FC / UPC					FCU	FCU									
FC / PC	FC / PC (Standard)				FCP	FCP									
SC / APC					SCA	SCA									
SC / UPC					SCU	SCU									
SC / PC	SC / PC				SCP	SCP									
ST / UPC					STU	STU									
ST / PC	ST / PC				STP	STP									
Other connectors: LSA, LuxCis, Molex, special, expanded beam etc. unique ID					OTH	OTH									
Length L1 in m [0.2 ... 4.5] (standard 4.5 m for 900µm, 1.5 m for 3 mm and 2 mm)															
Length L2 in m [0.2 ... 4.5] (standard 4.5 m for 900µm, 1.5 m for 3 mm and 2 mm)															
Bare fiber only	5 mm bending radius								0						
Fiber protective tube 900µm buffer	30 mm bending radius (Standard)								1						
Fiber protective tube Kevlar / aramid armor	20 mm bending radius								2						
Metallic protective tube	30 mm bending radius								M						
Special protection (e.g. military grade)									X						
FLEXIFLANGE Unique identifier															

Example: FORJ 1.17 type with SMF28 Ultra, FC/APC and SC/UPC, 1 m length each side with Kevlar protection.
RO01-FU-FCASCU-1010-22_**

Single-Channel Fiber Optic Rotary Joints (FORJ) 1.17

Fiber optic channel characteristics

Channels	1 CH	
Fiber type	Singlemode	Multimode
Fiber model	See fiber list	See fiber list
Wavelength (dependent on fiber model)	450 nm – 1650 nm	450 nm – 1650 nm
Average power capability, max.	500 mW	500 mW
Return Loss, min. / premium	45 dB - 55 dB	35 dB - 45 dB
Insertion loss, max. / premium	2.0 dB - 1.0 dB	2.0 dB - 1.0 dB
Insertion loss variation over rotation, max. / prem.	1.0 dB - 0.4 dB	1.0 dB - 0.2 dB

Mechanical characteristics

Rotation speed, max.	100 rpm
Life, min.	Up to 600×10^6 revolutions
Torque (room temperature), max.	0.1 Nm
Interface loads, max.	No loads allowed
Case material	Stainless steel, copper alloy (corrosion resistant)
Case surface finish	no finish
IP protection level	IP68 per EN 60529 (all interfaces connected with appropriate gaskets)
Weight, approx. (FORJ only, without flexi flanges)	0.06 kg

Environmental conditions

Operation	
Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	100%
Storage	
Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	100%