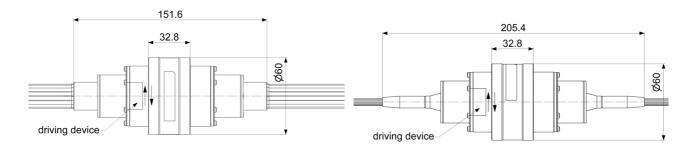


Multi-Channel Fiber Optic Rotary Joints x.60 SCOT

The x.60 (with an outer diameter of 60 mm) accommodates up to 36 channels, thanks to the high-precision proprietary SPINNER Collimator Technology (SCOT), which is also used for all of our other FORJ types. All of up to 36 independent channels can be individually specified and optimized. SCOT allows for single-mode or multimode or a mix of both for maximum flexibility. Exacting quality management ensures maximum performance and reliability during a long service life. Premium versions with excellent IL values and IL WOW values are also available. SPINNER can also make FLEXIFLANGES and additional housings for rough environment for this type to ensure easy integration into your setup. This type of FORJ is the working horse in a lot of applications ranging from cranes, mining, stages, tracking, and civil and military radars. It is the most common multichannel FORJ type used in slipring-FORJ combinations.

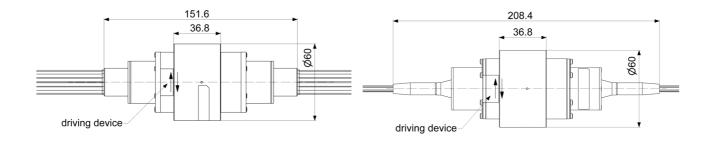
SPINNER FORJ x.60 IP50





SPINNER FORJ x.60 IP65

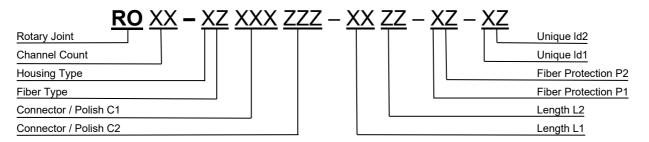






Multi-Channel Fiber Optic Rotary Joints x.60 SCOT

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	Uniq ID2
R	o	xx	-	Х	z	-	XXX	ZZZ	-	XX	ZZ	-	XZ	-	X	Z
Ø 60 mm	n (Type x.60) IP50		В												
Ø 60 mm	n (Type x.60) IP65		1												
Single-m	node E9 / 12	5 (standard	OS1)	S												
Single-m	node SMF28	Ultra		U												
Multi-mo	de G50 / 12	5 (standard	OM2)	М												
Multi-mo	de G62.5 /	125		N												
Special fi	fiber (e.g. G	657, HI1060,	, etc.)	Х												
Connect	tor Type C1	& C2														
Single M Connecto	flode or / Polish		Multi N	lode ctor / Polish												
LC / APC	C (Standard))					LCA	LCA								
LC / UPC	5						LCU	LCU								
		1	LC / PC	;			LCP	LCP								
FC / APC	0						FCA	FCA								
FC / UPC	С						FCU	FCU								
FC / PC		1	FC / PC	(Standard)			FCP	FCP								
SC / APC	0						SCA	SCA								
SC / UPO	С						SCU	SCU								
SC / PC		:	SC/PC				SCP	SCP								
ST / UPC	0						STU	STU								
ST / PC		;	ST / PC	;			STP	STP								
	nnectors: cCis, Molex,	special, exp	anded	beam etc. ur	nique ID		ОТН	ОТН								
							m and 2 mm)									
Length L	.2 in m [0.2 i	4.5] (stan	dard 4.	5 m for 900µ	m, 1.5 m to	r3 m	m 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					М							
Special p	orotection (e	.g. military g	rade)										X			
EI EVIEL	ANCE						Unique identi	fior								
FLEXIFL	ANGE						Unique identi	ner								

Example: FORJ 12.60 IP50 type with SMF28 Ultra, FC/APC and SC/UPC, 1 m length each side with Kevlar protection RO12-BU-FCASCU-1010-22-**



Multi-Channel Fiber Optic Rotary Joints x.60 SCOT

Fiber optic channel characteristics

Channels	Up to 36 CHs					
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 - 55 dB	35 - 45 dB				
Insertion loss, max. / premium	3.5 – 2.5 dB	3.5 – 2.5 dB				
Insertion loss variation over rotation, max. / premium	1.5 - 0.5 dB	1.5 - 0.5 dB				

Mechanical characteristics

Rotation speed, max.	Up to 150 rpm					
Life, min.	200 x 10 ⁶ revolutions					
Torque (room temperature), max.	0.15 Nm (depending on IP protection level)					
Interface loads, max.	no loads allowed					
Case material	stainless steel, copper alloy (corrosion resistant)					
Case surface finish	no finish					
IP protection level	IP50/IP65 per EN 60529 (all interfaces connected with appropriate gaskets)					
Weight, approx.	1.5 kg					

Environmental conditions

Operation					
Ambient temperature range	-40 °C to +85 °C				
Relative humidity, max.	95% - 100%				
Storage					
Ambient temperature range	-40 °C to +85 °C				
Relative humidity, max.	95% - 100%				