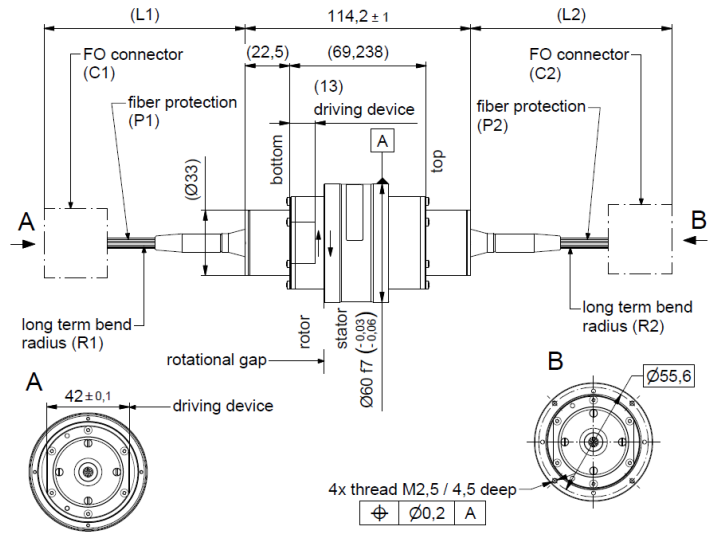


Rotary Joint || BN 549748C2000



all dimensions in millimeter

Fiber optic channel characteristics

Channels	20 CH	
Channel designation	1 to 20	
Fiber type	G50/125	
Side	Rotor	Stator
FO connector (C1 / C2)	FC/PC	FC/PC
Fiber protection (P1 / P2)	900 µm buffer	900 µm buffer
Fiber length (L1 / L2)	4500 ±150 mm	4500 ±150 mm
Long term bend radius, min. (R1 / R2)	30 mm	30 mm
Wavelength	850/1300 nm	
Average power capability, max.	10 mW / 10 dBm	
Insertion loss, max.	CH 1 to 7: 3.5 dB CH 8 to 20: 5.5 dB	
Insertion loss variation over rotation, max.	1.5 dB	
Cross talk, min.	50 dB (between all channels)	

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Mechanical characteristics

Rotating speed, max. / nominal	150 rpm / 100 rpm
Life, min.	200 x 10 ⁶ revolutions
Torque (room temperature), max.	0.15 Nm @ rotation
Interface loads, max.	±0.4 Nm bending moment
Case material	stainless steel and copper alloy, corrosion resistant
Case surface finish	no finish
IP protection level	IP50 per EN 60529 (all interfaces connected with appropriate gaskets)
Weight, approx.	1.5 kg
Marking	adhesive label (SPINNER logo)

Environmental conditions

Operation	
Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	95% (non-condensing)
Shock	30 g / 11 ms half sine, 3 shocks in each direction of 3 orthogonal axes
Vibration	6 to 17 m/s ² rms, 5.1 to 480 Hz, in three orthogonal axis
Storage	
Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	95% (non-condensing)

Applicable documents

Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH
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