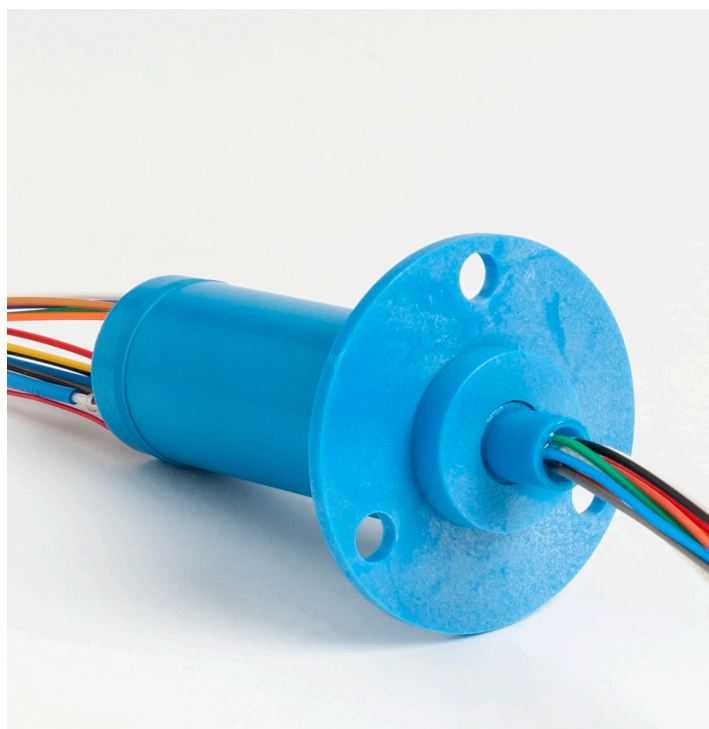




CONTACTLESS TRANSMISSION

SF 020

SLIP RING COMBINED WITH A CONTACTLESS ACTIVE DATA TRANSMISSION ROTARY JOINT



ELECTRICAL DATA - SLIP RING

Number of slip rings:	6, 12, 18, 24
Current:	max. 2 A per ring (single groove) 2 grooves combined for 4 A 3 grooves combined for 6 A
Voltage:	48 V _{DC} , higher on request
High pot:	500 V _{AC}
Insulation resistance:	1000 MOhm at 500 V _{DC}
Noise:	20 mOhm at 5 min ⁻¹ , 6 V _{DC} and 50 mA
Contacts / Leads:	Gold-gold / silver plated copper with PTFE insulation

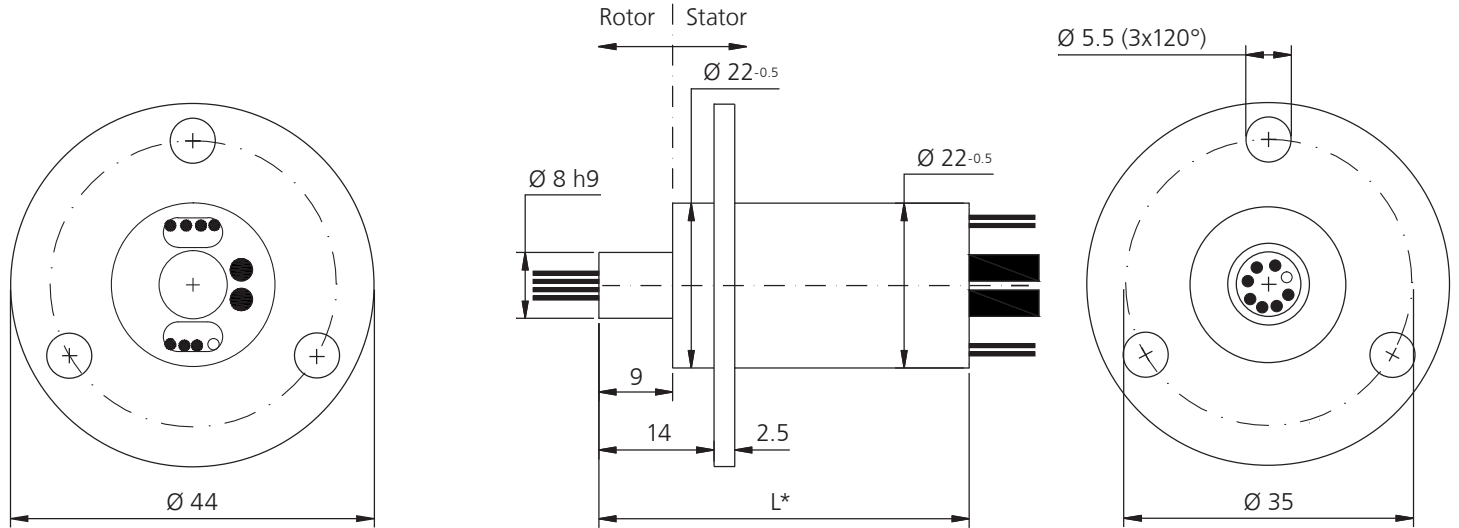
MECHANICAL DATA

Speed:	max. 250 min ⁻¹
Protection class:	IP 40
Temperature:	-20 °C ... +80 °C (-5 °F ... +175 °F)
Rotor / Stator conn.:	300 mm leads; AWG 26/19 (0,1 mm ²) Coax 50 Ω Impedance, 75 Ω on request
Bearings:	miniature ball bearings of steel
Housing:	made of glass fibre reinforced polycarbonate
Assembly:	body to be clamped or glued; other dimensions on request

ELECTRICAL DATA - CONTACTLESS ROTARY JOINT

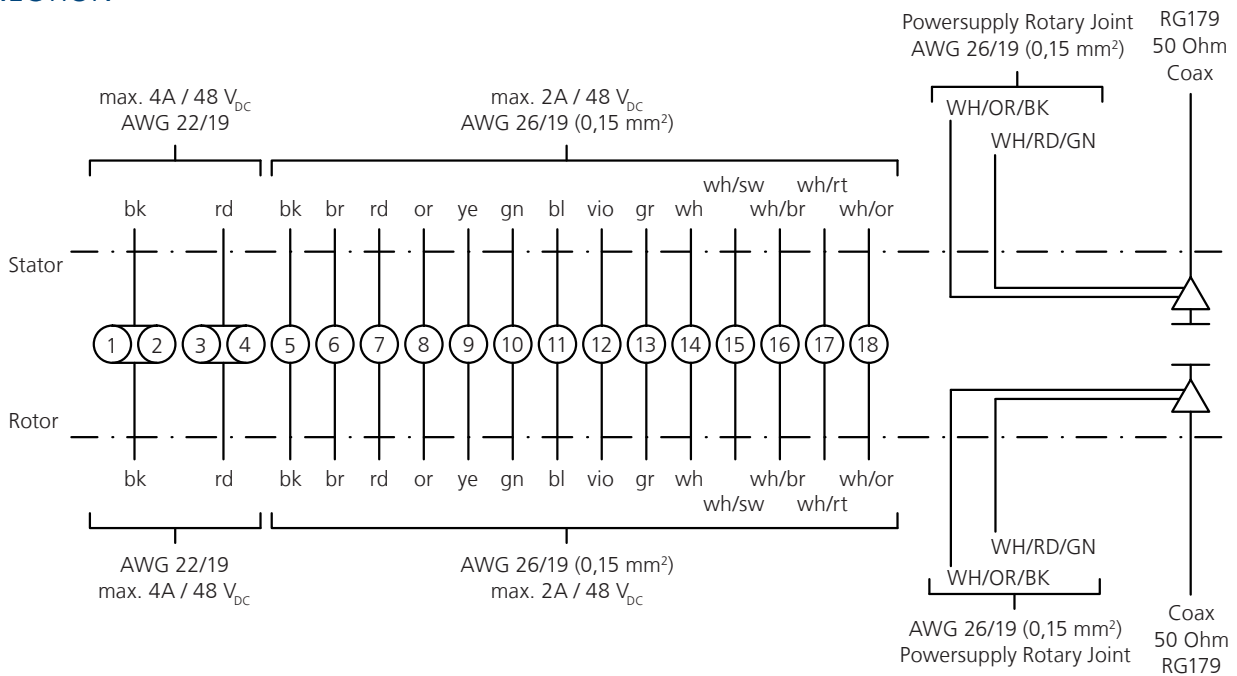
Number of channels:	1
Transmission bitrate:	0,155 Gbps - 1,25 Gbps 0,155 Gbps - 2,95 Gbps on request
Power supply:	3,3 V ± 0,2 V / 150 mA (rotor- and stator-side)

Total Differential-Input Signal:	200 mV - 2400 mV (R _i =100 Ω)
Output Amplitude:	400 mV - 600 mV (R _a =50 Ω)
Simplex transmission:	Data stream from rotor to stator Data stream from stator to rotor on request



Number of rings	6	12	18	24
L* (mm)	68	77	86	95

CONNECTION



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