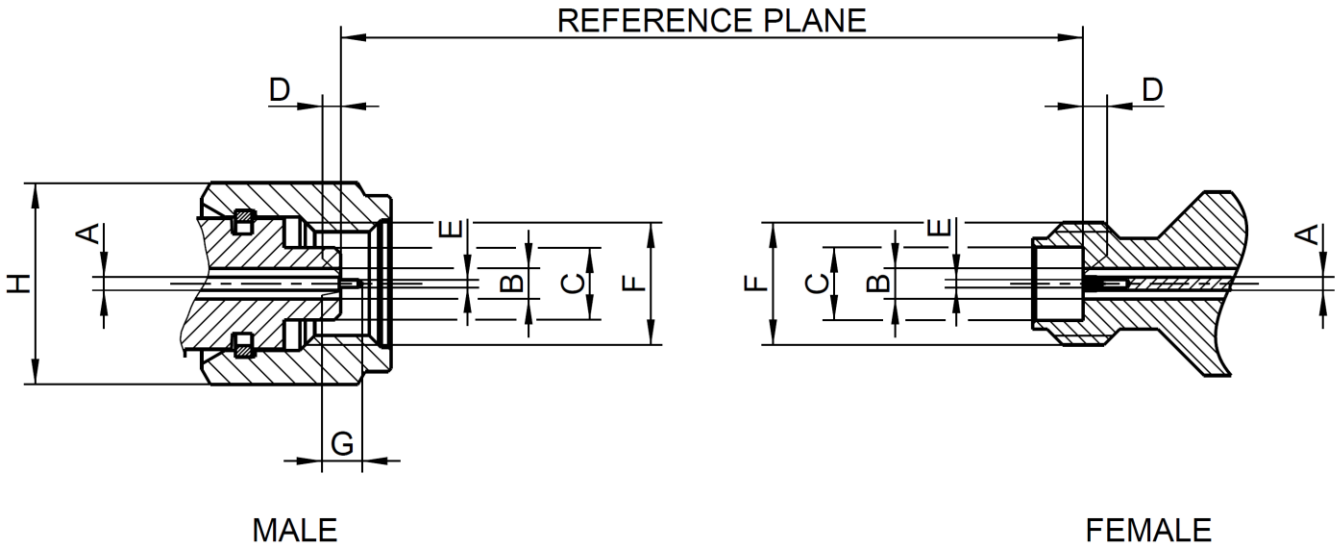
Technical Data	Rosenberger
01 RPC-1.00	**01-000-000_TD**



All dimensions are in mm

	Plug (male)		Jack (female)	
	min.	max.	min.	max.
A [1)]	0.4315	0.4365	0.4315	0.4365
B [1)]	0.9950	1.0050	0.9950	1.0050
C	2.348	2.368	2.38	2.40
D [1)]	0.005	0.030	0.005	0.030
E	0.245	0.255	see [2)]	
F	M4 x 0.7 – 6H		M4 x 0.7 – 6g	
G	0.71	0.79	---	----
H	hex 6		---	

1) could be divergent for metrology components
2) Slotted contact; dimensions to meet reflection factor requirements, mating characteristics and connector durability when mated with a 0.250 mm ± 0.005 mm diameter pin.

Interface

According to IEC 61169-31

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
F. Reiner	11.10.19	H. Babinger	12.03.20	100	19-1052	N. Topcagic	12.03.20

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Tel. : +49 8684 18-0
Email : info@rosenberger.com

Electrical data

Impedance	50 Ω
Frequency range	DC to 110 GHz
Return loss	see individual product data sheet
Insertion loss	see individual product data sheet
Insulation resistance	≥ 5 GΩ
Proof voltage (at sea level)	500 V rms or as limited by used cable
Working voltage (at sea level)	150 V rms or as limited by used cable
RF-leakage	≥ 90 dB up to 1 GHz

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 10 N
Coupling torque recommended	0.30 Nm to 0.41 Nm
Coupling test torque	0.70 Nm

Environmental data

Temperature range	-40 °C to +85 °C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion resistance	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
RoHS	compliant

Materials [3)]

Connector parts	**Material**	**Plating**
Center contact	CuBe	Gold, min. 1.27 µm, over chem. Nickel
Outer contact	CuBe or equiv.	Gold, min. 1.27 µm, over chem. Nickel
Dielectric	PEEK	

[3)] These are standard materials from which deviations are possible. Please see individual product datasheet for used materials

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