

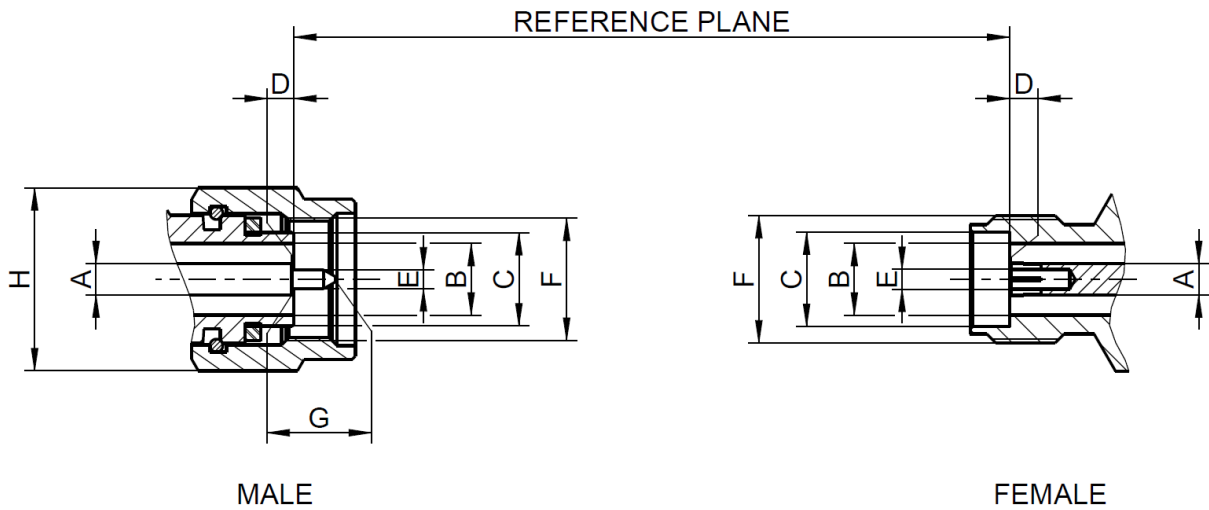
Technical Data

Rosenberger

03

RPC-3.50

03-000-000_TD



All dimensions are in mm

	Plug (male)		Jack (female)	
	min.	max.	min.	max.
A ¹⁾	1.51	1.53	1.51	1.53
B ¹⁾	3.49	3.51	3.49	3.51
C	4.55	4.57	4.60	4.63
D ¹⁾	0.005	0.080	0.005	0.080
E	0.919	0.935	see ²⁾	
F	1/4-36 UNS-2B		1/4-36 UNS-2A	
G ¹⁾	2.10	2.20	---	----
H	hex 8		---	

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 0.919 mm to 0.935 mm pin.

Interface

According to
Mechanically compatible with

IEC 60169-23
RPC-2.92 and SMA

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
F. Reiner	05.06.19	H. Babinger	09.10.19	100	19-1052	N. Topcagic	09.10.19
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Electrical data

Impedance	50 Ω
Frequency range	DC to 26.5 GHz
Return loss	see individual product data sheet
Insertion loss	see individual product data sheet
Insulation resistance	$\geq 5 \text{ G}\Omega$
Proof voltage (at sea level)	1000 V rms or as limited by used cable
Working voltage (at sea level)	335 V rms or as limited by used cable
RF-leakage	$\geq 100 \text{ dB}$ up to 1 GHz

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	$\geq 27 \text{ N}$
radial	$\geq 0.01 \text{ Nm}$
Coupling torque recommended	0.80 Nm to 1.10 Nm
Coupling test torque	1.70 Nm

Environmental data

Temperature range	-40 °C to +85 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion resistance	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Materials ³⁾

Connector parts

	Material	Plating
Center contact	CuBe	Gold, min. 1.27 μm , over chem. nickel
Outer contact	Stainless steel	Passivated
Dielectric	PS	
Gasket	Silicone	

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

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F. Reiner	05.06.19	H. Babinger	09.10.19	100	19-1052	N. Topcagic	09.10.19
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