

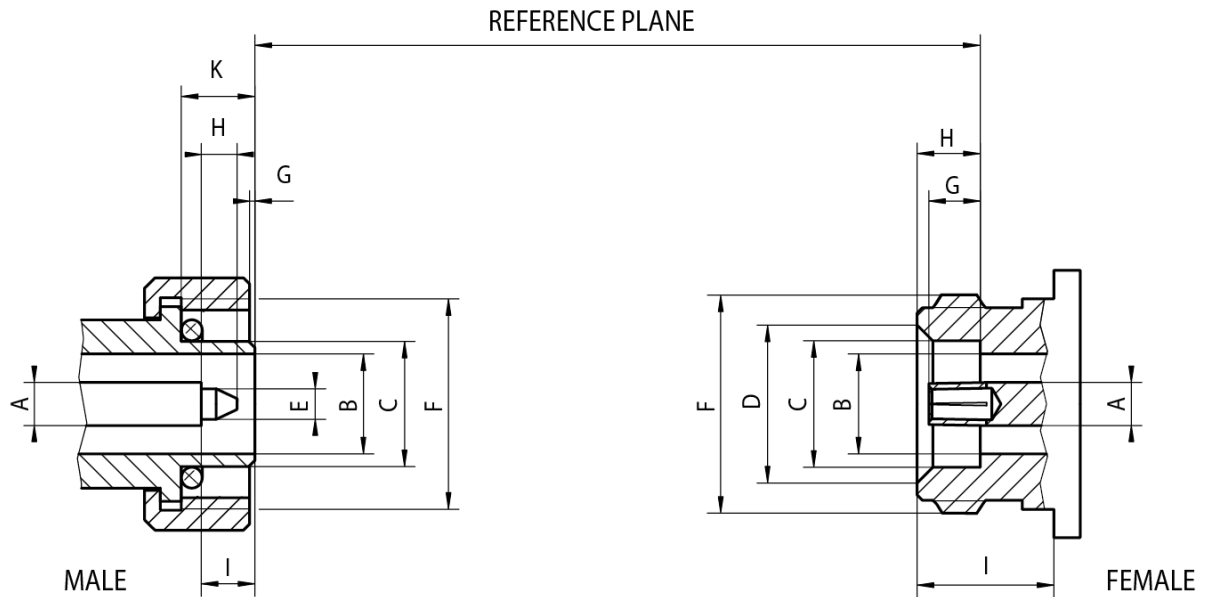
# Technical Data

# Rosenberger

65

4.1-9.5

65-000-000\_TD



	Male		Female	
	min.	max.	min.	max.
A	Ø 4.13 nom.		Ø 4.13 nom.	
B	Ø 9.40	Ø 9.60	Ø 9.40	Ø 9.60
C	Ø 11.84	Ø 12.02	Ø 12.03	Ø 12.21
D	-	-	Ø 14.90	Ø 15.00
E	Ø 2.855	Ø 2.945	-	-
F	M 20 x 1		M 20 x 1	
G	0.00	1.00	4.73	5.03
H	2.00	4.00	5.80	6.20
I	5.05	5.35	8.00	-
K	1)		-	-

Dimensions in mm

<sup>1)</sup> Resilient, dimension to meet electrical and mechanical requirements

## Interface

According to

IEC 60169-11, DIN 47231

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RFB00035

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Chr. Janßen	11.03.2019	Chr. Janßen	11.03.2019	a00	19-s083	J_Krautenbac	12.03.2019
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### Electrical data

Impedance	50 Ω
Frequency range	DC to 14 GHz
Return loss (cable connector straight)	≥ 30 dB @ DC to 0.5 GHz ≥ 23 dB @ 0.5 GHz to 4 GHz ≥ 20 dB @ 4 GHz to 10 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.1 mΩ
Working voltage	500 V rms
Power handling	450 W @ 2 GHz / 90 °C
RF leakage - Interface	≥ 114 dB @ DC to 1 GHz
Intermodulation 3rd order	≤ -160 dBc (2 x 43 dBm)

### Mechanical data

Mating cycles	≥ 500
Coupling nut retention	≥ 500 N
Center contact captivation	axial: ≥ 80 N
Coupling test torque	≤ 15 Nm
Coupling torque recommended	10 Nm
Pitch	≥ 25.4 mm

### Environmental data

Temperature range	-55 °C to +155 °C
Rapid change of temperature	IEC 60169-1, Sub-clause 16.4 (-55 °C / +155 °C)
Dry heat	IEC 60169-1, Sub-clause 16.2.1
Damp heat	IEC 60169-1, Sub-clause 16.2.2
Degree of protection (mated pair)	IEC 60529, IP 68
Corrosion resistance	IEC 60169-1, Sub-clause 16.7
Vibration	IEC 60169-1, Sub-clause 15.2.2
Max. soldering temperature (PCB connectors)	IEC 61760-1, +260 °C for 10 sec.

### Materials

#### Connector parts

Spring loaded contact parts
Center contact
Outer contact
Crimping ferrule
Dielectric
Gasket

#### Material

CuBe / CuSn
CuZn
CuZn
Cu
PP / PS / PTFE
Rubber

#### Plating

Ag
Ag
Ag / white bronze
white bronze

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