



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to IEC 60169-10, CECC 22130, MIL-PRF-39012

Documents

Assembly instruction 59 K4

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Centering sleeve

Material

CuBe
CuBe
PTFE
Brass

Plating

AuroDur®, gold plated
AuroDur®, gold plated
Gold, 0.1 µm min.

Technical Data Sheet

Rosenberger

SMB

Straight Jack

59K101-271L5

Electrical data

Impedance	50 Ω
Frequency	DC to 4 GHz
Return loss	≥ 33 dB, DC to 1 GHz ≥ 30 dB, 1 to 4 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 1x10 ³ MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage	750 V rms, 50 Hz, at sea level
Working voltage	≤ 250 V rms, 50 Hz, at sea level
Contact current	1.5 A DC typ.
RF-leakage	≥ 55 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 10 N
Engagement force	≤ 63 N
Disengagement force	8 N min. to 63 N max.

Environmental data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

N/A

Suitable cables

UT 85, RG 405

Weight

Weight 1.8 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
König A.	11.10.06	Chr. Janßen	03.02.21	c00	20-1927	S. Huber-Siegl	03.02.21
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