



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

**Interface**

According to IEC 60169-15, EN 122110, MIL-STD-348A, Fig. 310

**Documents**

Assembly instruction 32 A

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Coupling nut
- Dielectric
- Gasket

**Material**

- Brass
- CuBe or equiv.
- CuBe or equiv.
- PTFE
- Silicone

**Plating**

- AuroDur®, gold plated
- AuroDur®, gold plated
- Gold, 0.1  $\mu$ m min.

**Technical Data Sheet****Rosenberger**

SMA

Straight Plug

**32S101-270L5****Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR	$\leq 1.05 + 0.01 \times f$ [GHz]
Insertion loss	$\leq 0.03 \times \sqrt{f}$ [GHz] dB
Insulation resistance	$\geq 5$ GΩ
Center contact resistance	$\leq 3$ mΩ
Outer contact resistance	$\leq 2$ mΩ
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	$\leq 200$ W @ 2 GHz
RF-leakage	$\geq 100$ dB @ DC to 1 GHz

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles	$\geq 500$
Coupling nut retention	$\geq 270$ N
Coupling test torque	$\leq 1.7$ Nm
Recommended torque	0.8 Nm to 1.1 Nm

**Environmental data**

Temperature range	-65 °C to +165 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	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

**Tooling**

N/A

**Suitable cables**

UT 47

**Weight**

Weight 5.1 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
Rong Fang	27.03.14	Chr. Janßen	16.11.20	g00	20-1927	S. Huber-Siegl	16.11.20

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