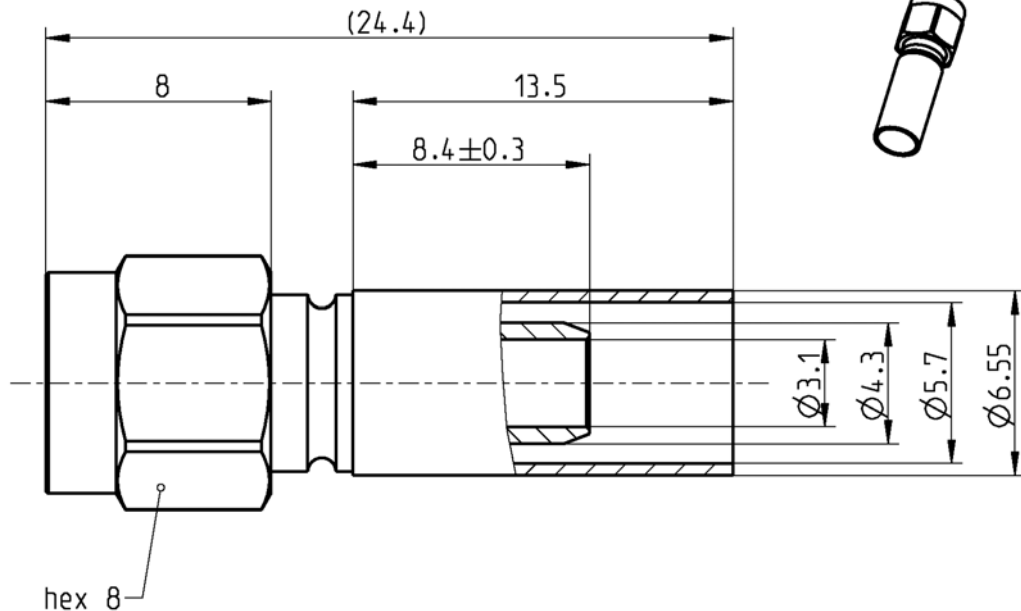




All dimensions are in mm; tolerances according to ISO 2768 m-H

#### Interface

According to  
Derived from  
Compliant with

Rosenberger 32RS000-000, series reverse SMA  
IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310  
FCC standard (part 15; section 15.203)

#### Documents

Assembly instruction

32 B8

#### Material and plating

##### Connector parts

Center contact  
Outer contact  
Body  
Dielectric  
Gasket  
Coupling nut  
Crimping ferrule

##### Material

CuBe  
Brass  
Brass  
PTFE  
Silicone  
Brass  
Copper

##### Plating

AuroDur®, gold plated  
AuroDur®, gold plated  
AuroDur®, gold plated

AuroDur®, gold plated  
Gold, 0.1 µm

# TECHNICAL DATA SHEET

**Rosenberger®**

Reverse SMA STRAIGHT PLUG  
REVERSE POLARITY

**32RS147-307L5**

## Electrical data

|                                                |                                                      |
|------------------------------------------------|------------------------------------------------------|
| Impedance                                      | 50 Ω                                                 |
| Frequency                                      | DC to 12.4 GHz                                       |
| VSWR                                           | $\leq 1.05 + 0.01 \times f \text{ [GHz]}$            |
| Insertion loss                                 | $\leq 0.05 \times \sqrt{f \text{ (GHz)}} \text{ dB}$ |
| Insulation resistance                          | $\geq 5 \times 10^3 \text{ M}\Omega$                 |
| Center contact resistance                      | $\leq 3 \text{ m}\Omega$                             |
| Outer contact resistance                       | $\leq 2 \text{ m}\Omega$                             |
| Test voltage                                   | 1000 V rms                                           |
| Working voltage                                | 480 V rms                                            |
| Power handling (at 20 °C, sea level, VSWR 1.0) | $\leq 200 \text{ W @ 2 GHz}$                         |
| RF-leakage                                     | $\geq 100 \text{ dB up to 1 GHz}$                    |

- Limitations are possible due to the used cable type -

## Mechanical data

|                                   |                      |
|-----------------------------------|----------------------|
| Mating cycles                     | min. 100             |
| Coupling nut retention            | $\geq 180 \text{ N}$ |
| Center contact captivation: axial | $\geq 27 \text{ N}$  |
| Coupling test torque              | max. 0.6 Nm          |
| Recommended torque                | 0.5 Nm               |

## Environmental data

|                     |                                 |
|---------------------|---------------------------------|
| Temperature range   | -65°C to +165°C                 |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion           | MIL-STD-202, Meth. 101, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. D |
| Shock               | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| 2002/95/EC (RoHS)   | compliant                       |

## Tooling

|               |            |
|---------------|------------|
| Crimping tool | 11W150-000 |
| Crimp insert  | 11W150-108 |

## Suitable cables

RG 142 B/U

## Packing

|          |                |
|----------|----------------|
| Standard | 100 pcs in bag |
| Weight   | 3.9 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.

| Draft           | Date     | Approved         | Date     | Rev. | Engineering change number | Name           | Date     |
|-----------------|----------|------------------|----------|------|---------------------------|----------------|----------|
| Chr. Entfellner | 09/07/08 | J. Krautenbacher | 09/07/08 | c00  | 07-0154                   | S. Huber-Siegl | 09/07/08 |

Rosenberger Hochfrequenztechnik GmbH & Co. KG  
P.O.Box 1260 D-84526 Tittmoning Germany  
[www.rosenberger.de](http://www.rosenberger.de)

Tel.: +49 8684 18-0  
Fax: +49 8684 18-499  
email: [info@rosenberger.de](mailto:info@rosenberger.de)

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