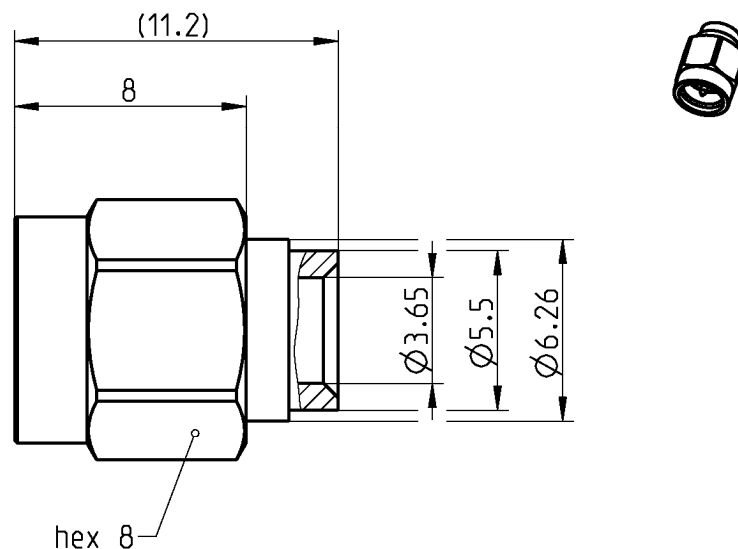




All dimensions are in mm; tolerances according to ISO 2768 m-H

#### Interface

According to

IEC 60169-15; EN 122110; MIL-STD-348

#### Documents

Assembly instruction

32 A3 or 32 A23

#### 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  $\mu\text{m}$

**Electrical data**

|                                                |                                                    |
|------------------------------------------------|----------------------------------------------------|
| Impedance                                      | 50 $\Omega$                                        |
| Frequency                                      | DC to 18 GHz                                       |
| VSWR                                           | $\leq 1.05 + 0.005 \times f \text{ [GHz]}$         |
| Insertion loss                                 | $\leq 0.03 \times \sqrt{f(\text{GHz})} \text{ dB}$ |
| 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. 500             |
| Coupling nut retention | $\geq 270 \text{ N}$ |
| Coupling test torque   | max. 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, 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          |
| RoHS                | compliant                       |

**Tooling**

N/A

**Suitable cables**

UT 141, RG 402

**Weight**

Weight 2.35 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          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|--------------------------------------------------------------------------------------------|---------------------------|-----------|---------------|
| A. König                                                                                                                                               | 04/04/07 | J_Krautenbacher | 21.07.16 | d00                                                                                        | 15-1629                   | I_Wallner | 21.07.16      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |          |                 |          | Tel.: +49 8684 18-0<br>email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |                           |           | Page<br>2 / 2 |

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