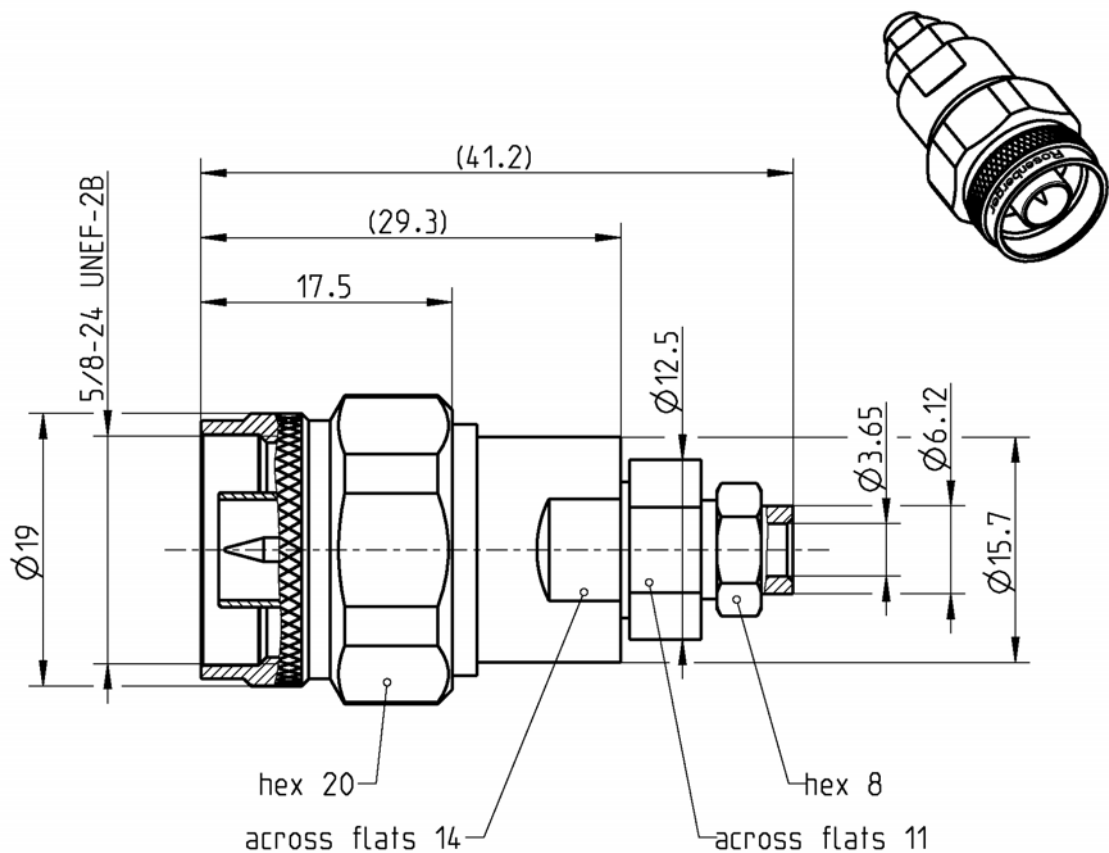




All dimensions are in mm; tolerances according to ISO 2768 m-H

#### Interface

According to

IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/402

#### Documents

Assembly instruction

02 A3

#### Material and plating

##### Connector parts

Center contact  
Outer contact  
Coupling nut  
Dielectric  
Solder sleeve

##### Material

Beryllium copper  
Stainless steel  
Stainless steel  
PPE  
Brass

##### Plating

Gold, min. 1.27  $\mu$ m, over chemical nickel  
Passivated  
Passivated  
Gold, 0.1  $\mu$ m min.

### Electrical data

|                           |                                            |
|---------------------------|--------------------------------------------|
| Impedance                 | 50 $\Omega$                                |
| Frequency                 | DC to 18 GHz                               |
| Return loss               | $\geq 25$ dB, DC to 18 GHz                 |
| Insertion loss            | $\leq 0.03 \times \sqrt{f(\text{GHz})}$ dB |
| Insulation resistance     | $\geq 5$ G $\Omega$                        |
| Center contact resistance | $\leq 1.0$ m $\Omega$                      |
| Outer contact resistance  | $\leq 1.0$ m $\Omega$                      |
| Test voltage              | 1000 V rms                                 |
| Working voltage           | 335 V rms                                  |
| RF-leakage                | $\geq 90$ dB up to 1 GHz                   |

- Limitations are possible due to the used cable type -

### Mechanical data

|                            |                    |
|----------------------------|--------------------|
| Mating cycles              | $\geq 500$         |
| Center contact captivation | $\geq 28$ N        |
| Coupling test torque       | 1.70 Nm            |
| Recommended torque         | 0.70 Nm to 1.10 Nm |

### Environmental data

|                     |                               |
|---------------------|-------------------------------|
| Temperature range   | -40°C to +85°C                |
| Thermal shock       | IEC 61169-1, Subclause 9.4.4  |
| Corrosion           | IEC 61169-1, Subclause 9.4.6  |
| Vibration           | IEC 61169-1, Subclause 9.3.3  |
| Shock               | IEC 61169-1, Subclause 9.3.14 |
| Moisture resistance | IEC 61169-1, Subclause 9.4.3  |
| 2002/95/EC (RoHS)   | compliant                     |

### Tooling

N/A

### Suitable cables

UT 141 / RTK-FS 141 / RTK-Flex 402

### Packing

|          |              |
|----------|--------------|
| Standard | 1 pce in bag |
| Weight   | 46.8 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.

| Draft                                                                                                                                                  | Date     | Approved    | Date     | Rev. | Engineering change number                                                                                          | Name     | Date          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|------|--------------------------------------------------------------------------------------------------------------------|----------|---------------|
| Armin Maiwlder                                                                                                                                        | 11/11/05 | H. Babinger | 08.02.07 | c00  | 07-0101                                                                                                            | B. Dandl | 08.02.07      |
| 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>Fax: +49 8684 18-499<br>email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |          | Page<br>2 / 2 |