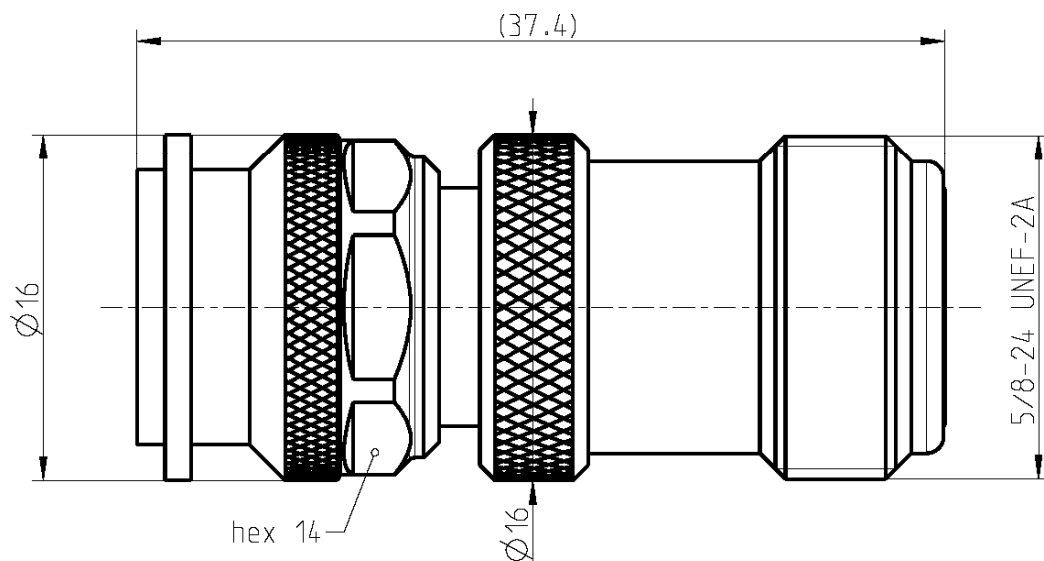
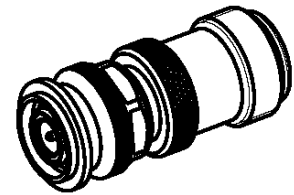




All dimensions are in mm; tolerances according to ISO 2768 m-H

### Interface

|              |          |                                            |
|--------------|----------|--------------------------------------------|
| According to | TNC side | IEC 60169-17, MIL-PRF-39012, DIN EN 122200 |
|              | N side   | IEC 61169-16, MIL-PRF-39012, CECC 22210    |

### Documents

N/A

### Material and plating

#### Connector parts

Center contact TNC and N side  
Outer contact TNC and N side  
Body  
Dielectric  
Gasket

#### Material

CuBe  
Brass  
Brass  
PTFE  
NeopreneCR 50C6

#### Plating

AuroDur®, gold plated  
Flash white bronze over silver(e.g. Optargen®)  
Flash white bronze over silver(e.g. Optargen®)

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|                                                                                                                                                                                                                                                                                                                                              |          |                                      |          |                                                                              |                           |           |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------|----------|------------------------------------------------------------------------------|---------------------------|-----------|-------------------|
| Technical Data Sheet                                                                                                                                                                                                                                                                                                                         |          |                                      |          | Rosenberger                                                                  |                           |           |                   |
| ADAPTOR<br>TNC 50Ω Plug - N 50Ω Jack                                                                                                                                                                                                                                                                                                         |          |                                      |          | 56S153-K00N5                                                                 |                           |           |                   |
| <b>Electrical data</b>                                                                                                                                                                                                                                                                                                                       |          |                                      |          |                                                                              |                           |           |                   |
| Impedance                                                                                                                                                                                                                                                                                                                                    |          | 50 Ω                                 |          |                                                                              |                           |           |                   |
| Frequency                                                                                                                                                                                                                                                                                                                                    |          | DC to 10 GHz                         |          |                                                                              |                           |           |                   |
| Return loss                                                                                                                                                                                                                                                                                                                                  |          | ≥ 35 dB @ DC to 1 GHz                |          |                                                                              |                           |           |                   |
|                                                                                                                                                                                                                                                                                                                                              |          | ≥ 30 dB @ 1 GHz to 2.5 GHz           |          |                                                                              |                           |           |                   |
|                                                                                                                                                                                                                                                                                                                                              |          | ≥ 26 dB @ 2.5 GHz to 3 GHz           |          |                                                                              |                           |           |                   |
| Insertion loss                                                                                                                                                                                                                                                                                                                               |          | ≤ 0.05 x √ f [GHz] dB, DC to 3 GHz   |          |                                                                              |                           |           |                   |
| Insulation resistance                                                                                                                                                                                                                                                                                                                        |          | ≥ 5 GΩ                               |          |                                                                              |                           |           |                   |
| Center contact resistance                                                                                                                                                                                                                                                                                                                    |          | ≤ 1.5 mΩ TNC side                    |          | ≤ 1 mΩ N side                                                                |                           |           |                   |
| Outer contact resistance                                                                                                                                                                                                                                                                                                                     |          | ≤ 1 mΩ TNC side                      |          | ≤ 0.25 mΩ N side                                                             |                           |           |                   |
| Test voltage (at sea level)                                                                                                                                                                                                                                                                                                                  |          | 1500 V rms                           |          |                                                                              |                           |           |                   |
| Working voltage (at sea level)                                                                                                                                                                                                                                                                                                               |          | 500 V rms                            |          |                                                                              |                           |           |                   |
| Power handling (at 20 °C, sea level, VSWR 1.0)                                                                                                                                                                                                                                                                                               |          | 80 W @ 2 GHz                         |          |                                                                              |                           |           |                   |
| <b>Mechanical data</b>                                                                                                                                                                                                                                                                                                                       |          |                                      |          |                                                                              |                           |           |                   |
|                                                                                                                                                                                                                                                                                                                                              |          | TNC side                             |          | N side                                                                       |                           |           |                   |
| Mating cycles                                                                                                                                                                                                                                                                                                                                |          | ≥ 500                                |          | ≥ 500                                                                        |                           |           |                   |
| Center contact captivation: axial                                                                                                                                                                                                                                                                                                            |          | ≥ 28 N                               |          | ≥ 28 N                                                                       |                           |           |                   |
| Coupling test torque                                                                                                                                                                                                                                                                                                                         |          | ≤ 1.7 Nm                             |          | ≤ 1.7 Nm                                                                     |                           |           |                   |
| Recommended torque                                                                                                                                                                                                                                                                                                                           |          | 0.46 Nm to 0.69 Nm                   |          | 0.7 Nm to 1.1 Nm                                                             |                           |           |                   |
| <b>Environmental data</b>                                                                                                                                                                                                                                                                                                                    |          |                                      |          |                                                                              |                           |           |                   |
| Temperature range                                                                                                                                                                                                                                                                                                                            |          | -55 °C to +155 °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 B |          |                                                                              |                           |           |                   |
| Shock                                                                                                                                                                                                                                                                                                                                        |          | MIL-STD-202, Method 213, Condition G |          |                                                                              |                           |           |                   |
| Moisture resistance                                                                                                                                                                                                                                                                                                                          |          | MIL-STD-202, Method 106              |          |                                                                              |                           |           |                   |
| RoHS                                                                                                                                                                                                                                                                                                                                         |          | compliant                            |          |                                                                              |                           |           |                   |
| <b>Tooling</b>                                                                                                                                                                                                                                                                                                                               |          |                                      |          |                                                                              |                           |           |                   |
|                                                                                                                                                                                                                                                                                                                                              |          | N/A                                  |          |                                                                              |                           |           |                   |
| <b>Suitable cables</b>                                                                                                                                                                                                                                                                                                                       |          |                                      |          |                                                                              |                           |           |                   |
|                                                                                                                                                                                                                                                                                                                                              |          | N/A                                  |          |                                                                              |                           |           |                   |
| <b>Weight</b>                                                                                                                                                                                                                                                                                                                                |          |                                      |          |                                                                              |                           |           |                   |
| Weight                                                                                                                                                                                                                                                                                                                                       |          | 33.6 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              |
| Rong Fang                                                                                                                                                                                                                                                                                                                                    | 21.04.05 | Sa. Krautenbacher                    | 20.03.14 | e00                                                                          | 14-0352                   | T. Krojer | 20.03.14          |
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