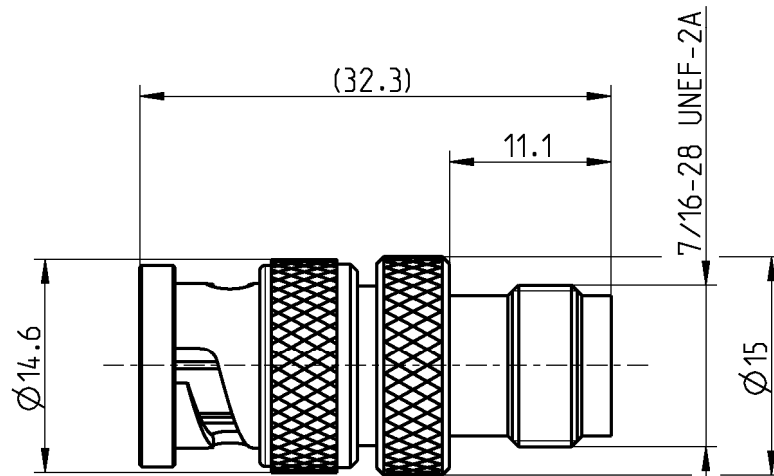


adaptor  
bnc 50  $\Omega$  plug - TNC 50  $\Omega$  jack

**51S156-K00N5**

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

**Interface**

|              |           |                                            |
|--------------|-----------|--------------------------------------------|
| According to | BNC side: | IEC 60169-8, MIL-PRF-39012, CECC 22120     |
|              | TNC side: | IEC 60169-17, MIL-PRF-39012, DIN EN 122200 |

**Documents**

N/A

**Material and plating****Connector parts**

Center contact BNC and TNC side  
Outer contact BNC and TNC 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®)

**adaptor**  
**bnc 50  $\Omega$  plug - TNC 50  $\Omega$  jack**

**51S156-K00N5****Electrical data**

|                                                |                                                                                       |
|------------------------------------------------|---------------------------------------------------------------------------------------|
| Impedance                                      | 50 $\Omega$                                                                           |
| Frequency                                      | DC to 10 GHz                                                                          |
| Return loss                                    | $\geq 35$ dB, DC to 1 GHz<br>$\geq 30$ dB, 1 to 2.5 GHz<br>$\geq 20$ dB, 2.5 to 4 GHz |
| Insertion loss                                 | $\leq 0.05 \times \sqrt{f \text{ [GHz]}}$ dB, DC to 4 GHz                             |
| Insulation resistance                          | $\geq 5 \times 10^3$ M $\Omega$                                                       |
| Center contact resistance                      | $\leq 1.5$ m $\Omega$ , BNC and TNC side                                              |
| Outer contact resistance                       | $\leq 1$ m $\Omega$ , BNC and TNC side                                                |
| Test voltage                                   | 1500 V rms                                                                            |
| Working voltage                                | 400 V rms                                                                             |
| Power handling (at 20 °C, sea level, VSWR 1.0) | $\leq 80$ W @ 2 GHz                                                                   |

**Mechanical data**

|                                   |             |                    |
|-----------------------------------|-------------|--------------------|
|                                   | BNC side    | TNC side           |
| Mating cycles                     | min. 500    | min. 500           |
| Center contact captivation: axial | $\geq 15$ N | $\geq 15$ N        |
| Coupling test torque              | N/A         | max. 1.7 Nm        |
| Recommended torque                | N/A         | 0.46 Nm to 0.69 Nm |

**Environmental data**

|                     |                                 |
|---------------------|---------------------------------|
| Temperature range   | -55°C to +155°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. B |
| Shock               | MIL-STD-202, Meth. 213, Cond. G |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 19.2 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                                                                                                                                        | 17/07/08 | Sa. Krautenbacher | 18.03.14 | e00  | 14-0352                                                                                                            | T. Krojer | 18.03.14      |
| 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 |