



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

**Interface**

According to

IEC 60169-8, MIL-PRF-39012, CECC 22120

**Documents**

Assembly instruction

51 P1

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Body
- Dielectric
- Crimping ferrule

**Material**

- CuBe
- Brass
- Brass
- PTFE
- Copper

**Plating**

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

**BNC 50**  
**Ω STRAIGHT JACK**

**51K107-106N5**

**Electrical data**

Impedance 50 Ω  
 Frequency DC to 10 GHz  
 Return loss ≥ 33 dB, DC to 2.5 GHz  
 ≥ 30 dB, 2.5 to 5 GHz  
 ≥ 28 dB, 5 to 8 GHz  
 Insertion loss ≤ 0.05 x √ f [GHz] dB  
 Insulation resistance ≥ 5 x10<sup>3</sup> MΩ  
 Center contact resistance ≤ 1.5 mΩ  
 Outer contact resistance ≤ 1 mΩ  
 Test voltage 1500 V rms  
 Working voltage 400 V rms  
 Power handling (at 20 °C, sea level, VSWR 1.0) ≤ 80 W @ 2 GHz

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles min. 500  
 Center contact captivation: axial ≥ 15 N

**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**

Crimping Tool 11W150-000  
 Crimp insert 11W150-208

**Suitable cables**

RG 58 /U, RG 141 A/U

**Weight**

Weight 13.0 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          |
|--|----------|-------------------|----------|------|--|-----------|---------------|
| Inge Mühlauer  | 21/05/08 | Sa. Krautenbacher | 17.03.14 | e00  | 14-0352  | T. Krojer | 17.03.14      |
| 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 |

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