



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

**Interface**

According to EN 122 180, IEC 60169-19

**Documents**

Assembly instruction 35 C1

**Material and plating**

**Connector parts**

	<b>Material</b>	<b>Plating</b>
Center contact	Beryllium copper	Gold, min. 1.27 µm, over nickel
Outer contact	Brass	Gold, min. 0.8 µm, over nickel
Body	Brass	Gold, 0.1 µm min.
Coupling nut	Beryllium copper	Gold, min. 0.15 µm, over chemical nickel
Dielectric	PTFE	
Crimping ferrule	Copper	Gold, 0.1 µm min.

**Electrical data**

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 28 dB, DC to 1 GHz ≥ 25 dB, 1 to 3 GHz ≥ 23 dB, 3 to 6 GHz
Insertion loss	≤ 0.1 x √f(GHz) dB
Insulation resistance	≥ 1x10 <sup>3</sup> MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage	500 V rms
Working voltage	175 V rms
RF-leakage	≥ 70 dB up to 1 GHz

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles	≥ 500
Center contact captivation	≥ 8 N
Coupling test torque	0.3 Nm
Recommended coupling torque	0.2 to 0.23 Nm
Tensile strength of coupling mechanism	≥ 100 N

**Environmental data**

Temperature range	-55°C to +155°C	
Climatic class	IEC 60068-2-1 55/155/21 IEC 60068-2-2 IEC 60068-2-3	
Vibration	IEC 60068-2-6	10 Hz to 500 Hz, 98m/s <sup>2</sup>

**Tooling**

Crimping tool	11W150-000
Crimp insert	11W150-102

**Suitable cables**

RG 316 /U, RG 174 A/U, RG 188 A/U

**Packing**

Standard	1 pce in bag
Weight	1.4 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	28/09/04	Rong Fang	02/11/05	b00	05-0567	Inge Mühlauer	02/11/05
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2