



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

**Interface**

According to IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310

**Documents**

Assembly instruction 32 B9

**Material and plating**

**Connector parts**

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

RF\_35/12.04/3.0

**Electrical data**

Impedance	50 Ω
Frequency	DC to 12.4 GHz
VSWR	≤ 1.03, DC to 1 GHz ≤ 1.05, 1 to 2.5 GHz ≤ 1.20, 2.5 to 5 GHz
Insertion loss	≤ 0.04 × √f(GHz) dB, DC to 5 GHz
Insulation resistance	≥ 5 × 10 <sup>3</sup> MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz
RF-leakage	≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles	min. 500
Coupling nut retention	≥ 270 N
Center contact captivation: axial	≥ 20 N
Coupling test torque	max. 1.7 Nm
Recommended torque	0.8 Nm to 1.1 Nm

**Environmental data**

Temperature range	-65°C to +165°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. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
2002/95/EC (RoHS)	compliant

**Tooling**

Crimping tool	11W150-000
Crimp insert	11W150-108

**Suitable cables**

RG 141 /U, RG 58 C/U

**Packing**

Standard	100 pcs in bag
Weight	5.70 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.

RF\_35/12.04/3.0

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Rong Fang	15/03/04	J.Krautenbacher	04/10/06	c00	06-0478	S_Kra.	04/10/06
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