



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 T

Material and plating

Connector parts

Center contact
 Outer contact
 Body
 Dielectric
 Gasket
 Crimping ferrule

Material

Spring bronze
 Brass
 Brass
 PTFE
 NeopreneCR 50C6
 Copper

Plating

Gold, min. 0.8 µm, over chemical nickel
 Flash white bronze over silver(e.g. Optargen®)
 Flash white bronze over silver(e.g. Optargen®)
 Flash white bronze over silver(e.g. Optargen®)

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 28 dB, DC to 1 GHz ≥ 25 dB, 1 to 2 GHz ≥ 20 dB, 2 to 10 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB
Insulation resistance	≥ 5 x10 ³ 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	-45°C to +85°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 2002/95/EC (RoHS)	MIL-STD-202, Meth. 106 compliant

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-402

Suitable cables

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

Packing

Standard	1 pce in bag, S0001S 100 pcs in bag, B0100S
Weight	10.0 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	20/07/04	J. Krautenbacher	29/09/06	c00	06-0478	S. Huber-Siegl	29/09/06
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de		Page 2 / 2