



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

**Interface**

According to 153QS000-000, DCA-00067913

**Documents**

Assembly instruction 53 S1

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Contact spring
- Body
- Dielectric
- Unlocking sleeve
- Crimping ferrule

**Material**

- Brass
- Brass
- Beryllium copper
- Brass
- PTFE
- Brass
- Copper

**Plating**

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

**Electrical data**

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 32 dB, DC to 2.5 GHz ≥ 23 dB, 2.5 to 4 GHz ≥ 20 dB, 4 to 6 GHz
Insertion loss	≤ 0.05 dB x √ f [GHz]
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1.5 mΩ
Test voltage	2500 V rms
Working voltage	1000 V rms
RF-leakage	≤ -90 dB @ 3 GHz

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles	min. 100
Center contact captivation: axial	≥ 28 N
radial	≥ 1 Ncm
Engagement force	30 N (typ.)
Disengagement force	30 N (typ.)

**Environmental data**

Temperature range	-40°C to +125°C
Thermal shock	MIL-STD-202, Meth. 107 D, Cond. B
Corrosion	MIL-STD-202, Meth. 101 D, Cond. B
Vibration	MIL-STD-202, Meth. 204 D, Cond. A
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
Degree of protection (mated pair)	IEC 60529, IP68 0.3 bar (interface only)
RoHS	compliant

**Tooling**

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

**Suitable cables**

RG 223 / RG 142 / RG 400

**Weight**

Weight	26 g/pce
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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
A. Fellner	20/1/06	Sa. Krautenbacher	11.03.14	b00	14-0352	T. Krojer	11.03.14
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