



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

Interface

According to IEC 60169-4, VG 95250, EN 122190, DIN 47223

Documents

Assembly instruction 60 S21

Material and plating

Connector parts

	Material	Plating
Center contact	Brass	Silver, 3-6 µm
Outer contact	Brass	Silver, 3-6 µm
Dielectric	PTFE	
Gasket	Silicone	
Coupling nut	Brass	Flash white bronze over silver(e.g. Optargen®)

Electrical data

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	≥ 35 dB, DC to 1 GHz ≥ 30 dB, 1 GHz to 2.5 GHz ≥ 25 dB, 2.5 GHz to 5 GHz
Insertion loss	≤ 0.05 dB
Insulation resistance	≥ 10 ⁴ MΩ
Center contact resistance	≤ 0.4 mΩ
Outer contact resistance	≤ 1.5 mΩ
Test voltage (at sea level)	2500 V rms, 50 Hz
Working voltage (at sea level)	1000 V rms, 50 Hz
RF-leakage	≥ 128 dB up to 1 GHz
Intermodulation (3 rd order)	≤ -115 dBm @ 2 x 20 W

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 200 N
radial	≥ 2 Ncm
Coupling torque (recommended)	25 to 30 Nm
Proof torque	max. 35 Nm

Environmental data

Temperature range	-55°C to +155°C
Rapid change of temperature	DIN EN 122190, clause 4.6.7
Corrosion salt mist	DIN EN 122190, clause 4.6.10
Vibration	DIN EN 122190, clause 4.6.3
Damp heat	DIN EN 122190, clause 4.6.6
Climatic tests	DIN EN 122190, clause 4.6.5 (55/155/56)
Degree of protection (mated pair)	IEC 60529, IP67
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

RTK-FS 141, UT 141, RG 402

Packing

Standard	20 pcs in box
Weight	97 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
Hauke Schütt	19/04/05	Krautenbacher J.	05.11.07	c00	07-0767	T. Stadler	05.11.07
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