



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**

	<b>Material</b>	<b>Plating</b>
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 7.5 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 <sup>4</sup> MΩ
Center contact resistance	≤ 0.4 mΩ
Outer contact resistance	≤ 1.5 mΩ
Working voltage (at sea level)	500 V rms, 50 Hz
RF-leakage	≥ 128 dB up to 1 GHz
Intermodulation (3 <sup>rd</sup> 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
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

RTK-FS 141, UT 141, RG 402

**Weight**

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	J_Gramsamer	07.04.15	e00	15-0397	J_Krautenb.	07.04.15
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 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2

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