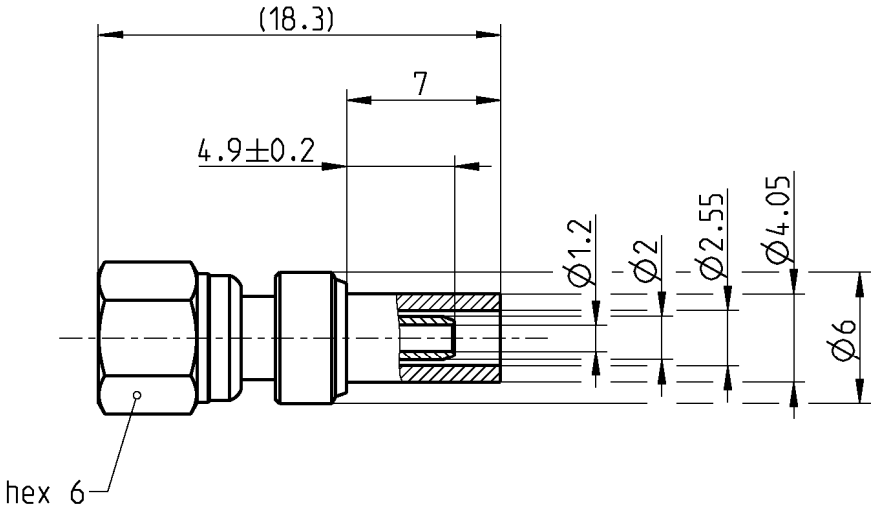
TECHNICAL DATA SHEET	Rosenberger
SMC STRAIGHT JACK	**39K102-101L5**





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

Interface

According to	IEC 60169-9, CECC 22140, US MIL-C-39012

Documents

Assembly instruction	59 G2

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Beryllium copper	Auro Dur, gold plated
Outer contact	Brass	Auro Dur, gold plated
Body	Brass	Gold, min. 0.8 µm, over nickel
Dielectric	PTFE	
Coupling nut	Brass	Gold, 0.1 µm min.
Crimping ferrule	Copper	Gold, 0.1 µm min.

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TECHNICAL DATA SHEET	Rosenberger
SMC STRAIGHT JACK	**39K102-101L5**

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 25 dB, DC to 1 GHz
	≥ 20 dB, 1 to 3 GHz
	≥ 18 dB, 3 to 6 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f(GHz)}$ dB
Insulation resistance	≥ $1x10^3$ MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage	750 V rms, 50 Hz, at sea level
Working voltage	≤ 250 V rms, 50 Hz, at sea level
RF-leakage	≥ 90 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Coupling nut retention	≥ 150 N
Coupling test torque	max. 0.71 Nm
Recommended torque	0.25 Nm to 0.35 Nm
Center contact captivation: axial	≥ 10 N

Environmental data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Moisture resistance	MIL-STD-202, Meth. 106
Corrosion	MIL-STD-202, Meth. 101, Cond B
RoHS	compliant

Tooling

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

Suitable cables

RG 178

Weight

Weight	2.1 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
Inge Mühlauer	21/12/04	Sa. Krautenbacher	17.03.14

Rev.	Engineering change number	Name	Date
f00	14-0352	T. Krojer	17.03.14

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