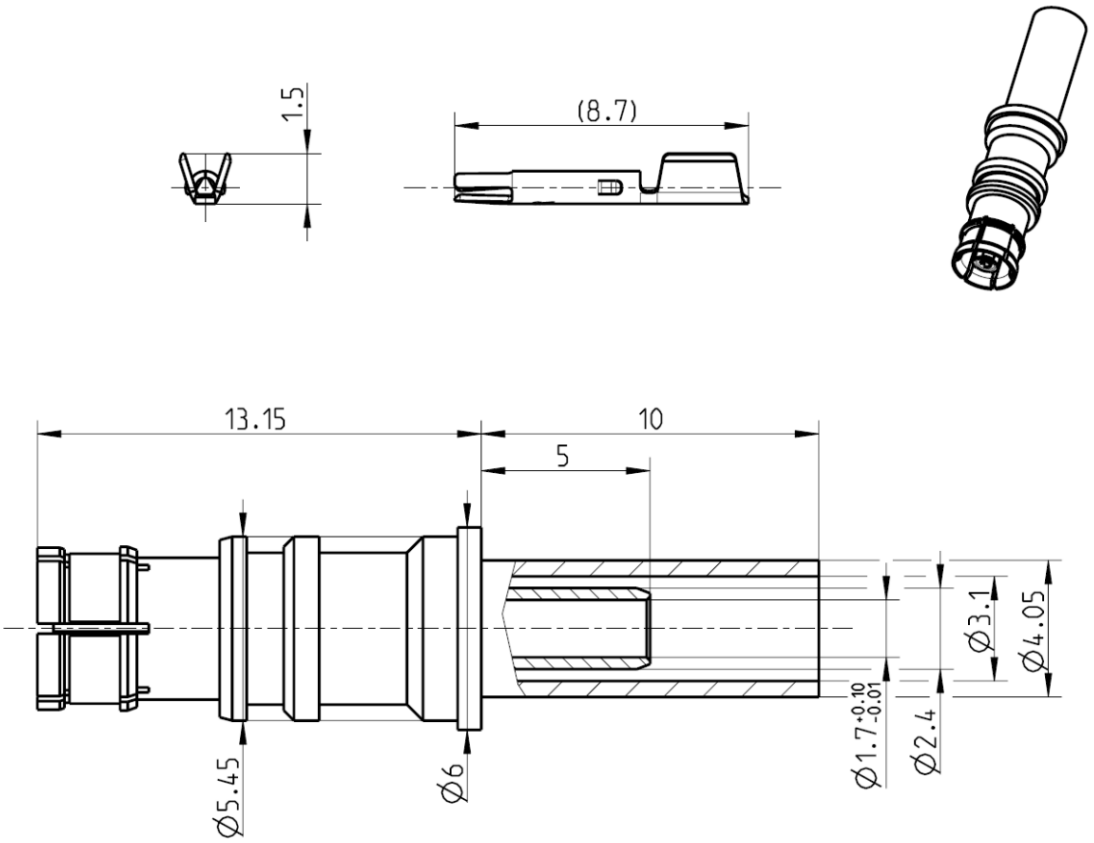
Technical Data Sheet		Rosenberger
FAKRA - HF	STRAIGHT JACK	**59K13O-102A4**



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

Interface

According to	DIN 72594-1

Documents

Assembly instruction	MA_59V059

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Spring bronze	Gold, min. 0.8 µm, over nickel
Outer contact	Brass	Nickel, 3-6 µm
Contact spring	Stainless steel	N/A
Dielectric	PA12-GB30 (f)	
Crimping ferrule	Copper	Nickel, 2.5-5 µm

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Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Email : info@rosenberger.de

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 30 dB, DC to 1 GHz
	≥ 26 dB, DC to 3 GHz
	≥ 20 dB, DC 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	≤ 5 mΩ
Test voltage	750 V rms
Working voltage	335 V rms
Power current	≤ 1 A DC
RF-leakage	≥ 65 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 25 N
Disengagement force	≥ 2 N

Environmental data

Temperature range	-40°C to +105°C
Thermal shock	DIN 72594-2 clause 8.2
Temperature and humidity	DIN 72594-2 clause 8.3 (f)
Vibration and mechanical shock	DIN 72594-2 clause 8.1
Dry heat	DIN 72594-2 clause 8.4
RoHS (f)	compliant

- Limitations are possible due to the used cable type -

Tooling

Crimping tool	11W150-000
Crimp insert outer contact	11W150-302 (“double crimp”)
	11W150-402 (“flat crimp”)
Crimping tool -	
Incl. Crimp insert center contact	11W161-800

Suitable cables

Cable type	RG 174; RG 316

Packing

Standard	10 / 500 / 5.000 / 20.000 pcs in box; center contact on reel
Weight	1.84 g/pce

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Change History

Rev.	Date	Change
f00	07.12.16	Dielectric material data from PA 12 to PA12-GB30 DIN 72594-2 clause 6… to clause 8… RoHS from '2002/95/EC (RoHS)' to 'RoHS'

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Email : info@rosenberger.de