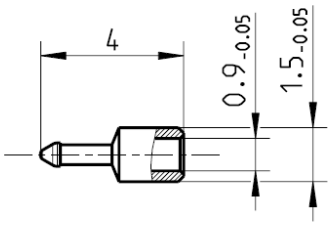
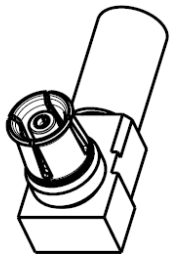
TECHNICAL DATA SHEET

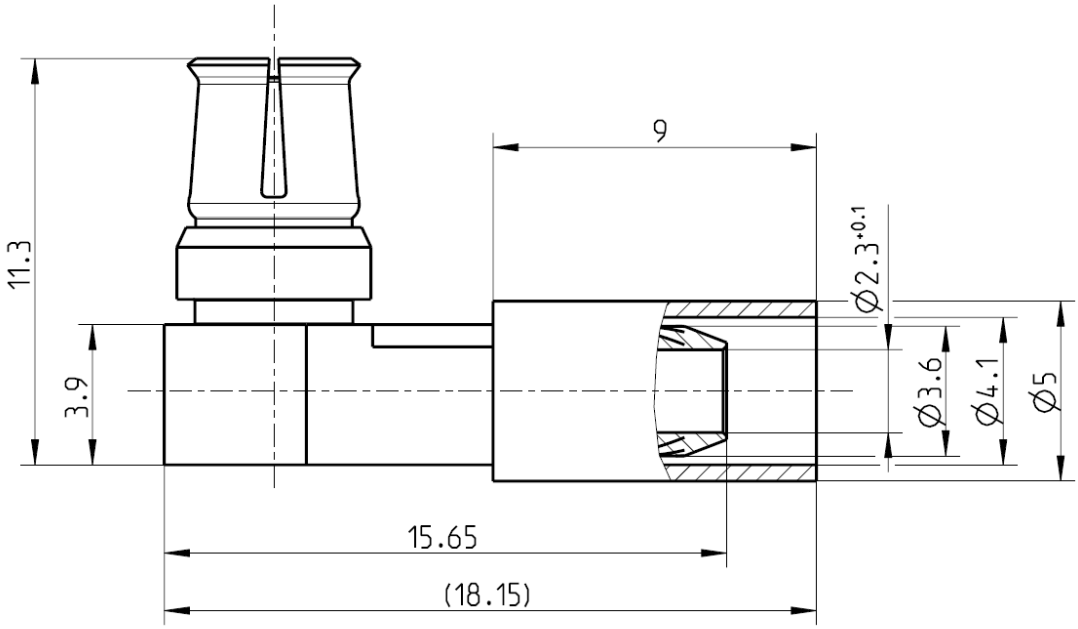
Rosenberger®

FAKRA - HF RIGHT ANGLE JACK

59K28H-1M4A4







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

Interface

According to	DIN 72594-1

Documents

Assembly instruction	MA_59V042

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Spring bronze	Gold, min. 0.8 µm, over chemical nickel
Center contact 2	Brass	Gold, min. 0.15 µm, over chemical nickel
Outer contact	Spring bronze	
Body	Brass	Nickel, 2.5-5 µm
Dielectric	PBT	
Crimping ferrule	Copper	Nickel, 2.5-5 µm
Cover	Alpaca	

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Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 26 dB, DC to 1 GHz
	≥ 24 dB, DC to 3 GHz
	≥ 17 dB, DC to 6 GHz
Insertion loss	$\leq 0.1 \sqrt{f(GHz)}$ dB @ 1 GHz
Insulation resistance	≥ $1x10^3$ MΩ
Center contact resistance	≤ 15 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	min. 25
Engagement force	≤ 25 N
Disengagement force	≥ 2 N

Environmental data

Temperature range	-40°C to +105°C
Thermal shock	DIN 72594-2 clause 6.2
Temperature and humidity	DIN 72594-2 clause 6.3
Vibration and mechanical shock	DIN 72594-2 clause 6.1
Dry heat	DIN 72594-2 clause 6.4
2002/95/EC (RoHS)	compliant

- Limitations are possible due to the used cable type -

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-504

Suitable cables

Cable type	RTK 031

Packing

Standard	1.000 pcs in box, 4000 pcs in returnable container
Weight	2.57 g/pce

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Wolfgang Lankes	15/02/07	M. Zebhauser	19/01/09	c00	09-0034	M. Singhammer	14/01/09

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