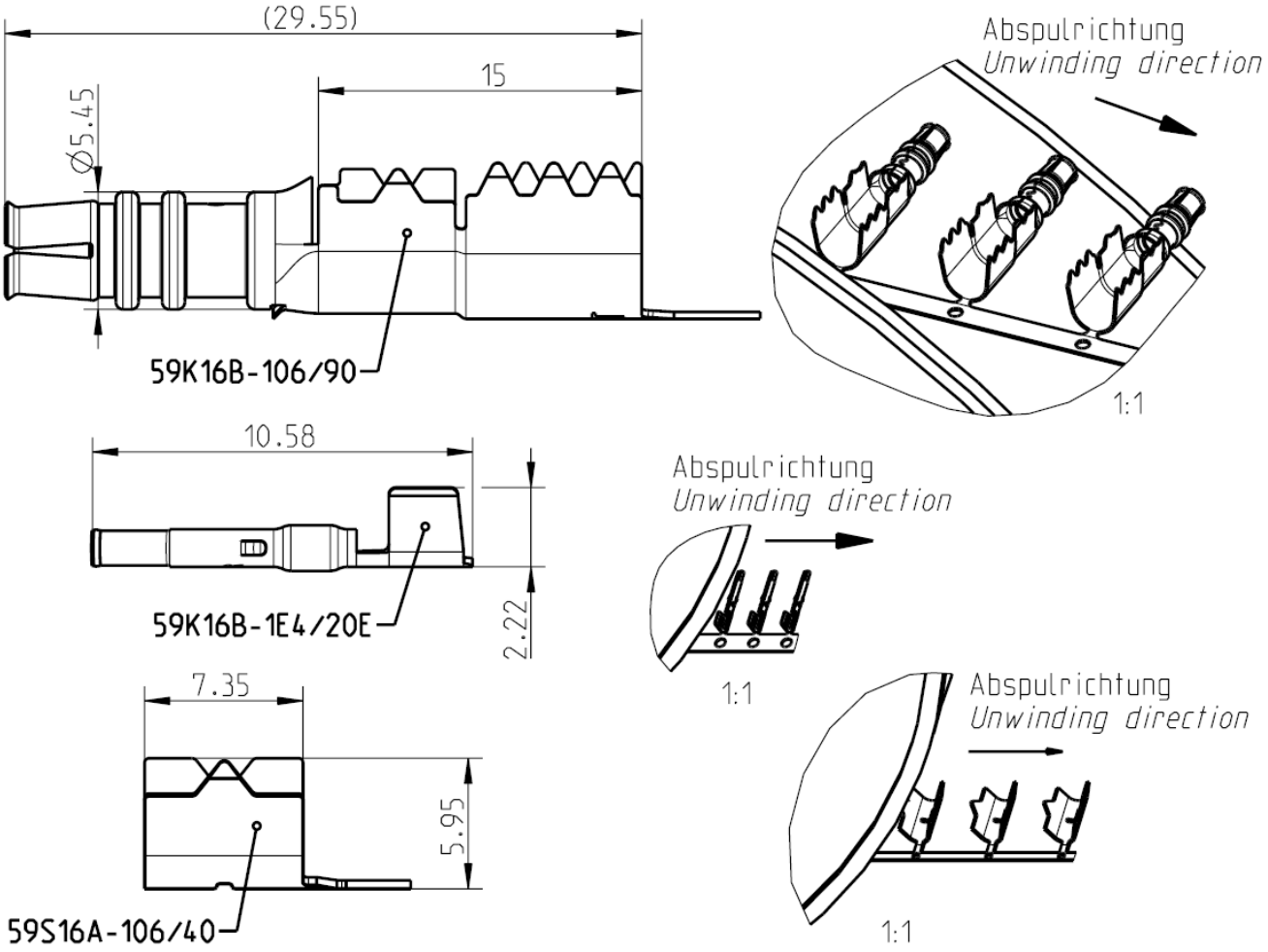
TECHNICAL DATA SHEET	Rosenberger
FAKRA - HF STRAIGHT JACK	**59K16B-1E4T4**



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

Interface

According to	DIN 72594-1

Documents

Assembly instruction	MA_59V044

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Spring bronze	Gold, min. 0.8 µm, over chemical nickel
Outer contact	Spring bronze	Tin, 1,5-3 µm
Dielectric	PA 12	
Crimping sleeve	Spring bronze	Tin, 1,5-3 µm

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Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≤ -TBD dB, DC to 1 GHz
	≤ -TBD dB, DC to 2 GHz
	≤ -TBD dB, DC to 3 GHz
	≤ - TBD dB, DC to 6 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(GHz)}$ 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 (optional)	≥ 60 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 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

Crimp dimension acc. to assembly instruction!

Serie Tool:

Crimping applicator (59K16B-106/90)	19150017
Crimping applicator (59S16A-106/40)	19150018
Crimping applicator (59K16B-1E4/20E)	19150009

Hand tool:

Crimp applicator (59K16B-1E4/20E)	11W161-806

Suitable cables

Cable type	RG 58 LL

RF_35/12.04/3.0

Packing

Standard

59K16B-106/90	33000 pcs (22 reel/carton; 1500 pcs on reel)
59S16A-106/40T	95000 pcs (38 reel/carton; 2500 pcs on reel)
59K16B-1E4/20E	500/5000/20000 pcs on reel
Weight	1.95 g/pce

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