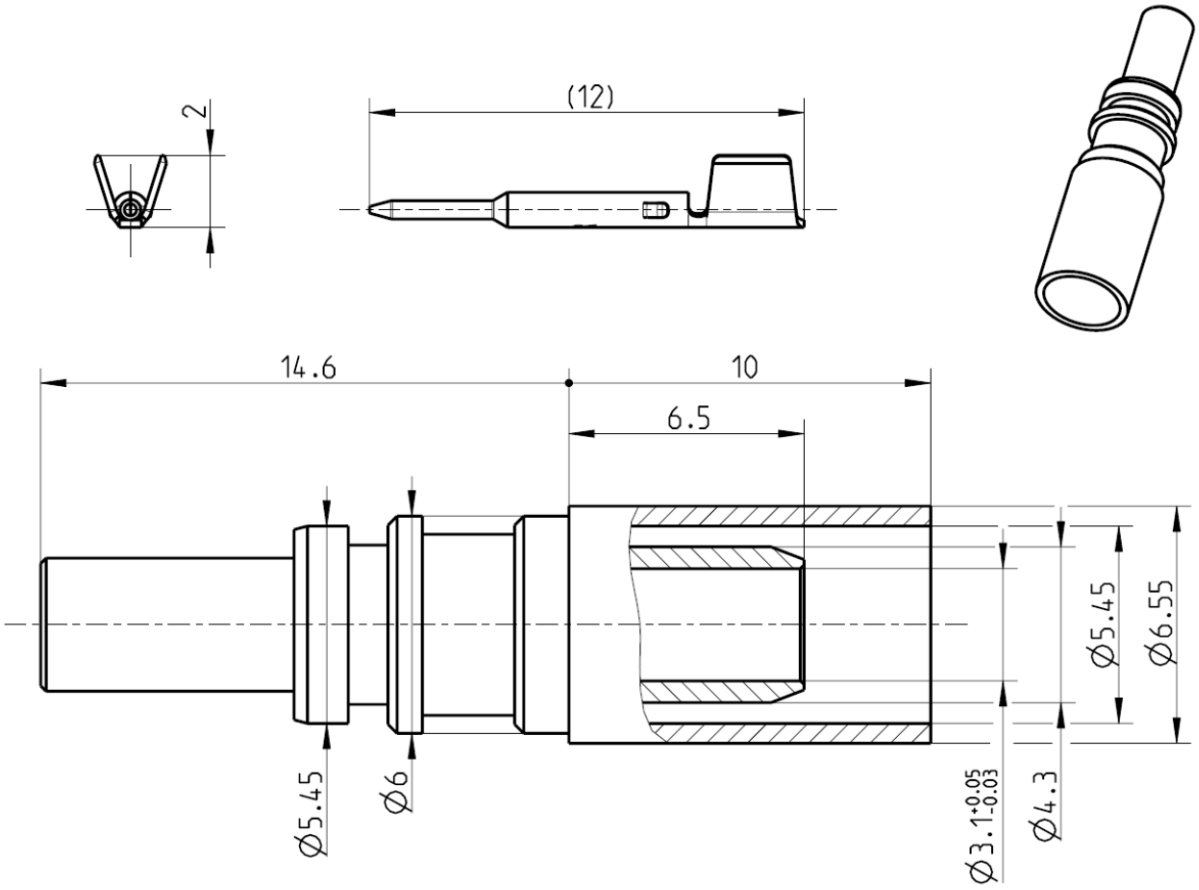
Technical Data Sheet	Rosenberger
FAKRA - HF / STRAIGHT PLUG	**59S10O-106A4**



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

Interface

According to	DIN 72594-1

Documents

Assembly instruction	MA_59V058

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
Dielectric	PA12-GB30 (e)	
Crimping ferrule	Copper	Nickel, 2.5-5 µm

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Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 30 dB, DC to 1 GHz
	≥ 24 dB, DC to 3 GHz
	≥ 15 dB, DC to 6 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f(GHz)}$ dB
Insulation resistance	$\geq 1 \times 10^3$ 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
Vibration and mechanical shock	DIN 72594-2 clause 8.1 (e)
Dry heat	DIN 72594-2 clause 8.4
RoHS (e)	compliant

- Limitations are possible due to the used cable type -

Tooling

Crimping tool	11W150-000
Crimp insert outer contact	11W150-108
Crimping tool - Incl. Crimp insert center contact	11W161-806

Suitable cables

Cable type	RG 58

Packing

Standard	10 / 500 / 5.000 / 20.000 pcs in box; center contact on reel
Weight	2.64 g/pce

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Change History

Rev.	Date	Change
e00/e01	14.03.17	-Dielectric material data: Added GB30 to PA12-GB30 according to precise material specification and delivery situation -DIN 72594-2 clause 6… to clause 8… -RoHS from “2002/95/EC (RoHS)” to “RoHs”

Draft	Date	Approved	Date
T. Höfling	12.01.05	C. Anfang	14.03.17

Rev.	Engineering change number	Name	Date
e01	17-0384	R. Gnodtke	14.03.17

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