



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**

- Center contact
- Outer contact
- Dielectric
- Crimping ferrule

**Material**

- Spring bronze
- Brass
- PA12-GB30 (e)
- Copper

**Plating**

- Gold, min. 0.8 µm, over nickel
- Nickel, 3-6 µm
- Nickel, 2.5-5 µm

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FAKRA -  
HF

STRAIGHT PLUG

**59S100-1M4A4**

**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	≤ 0.1 x √f(GHz) dB
Insulation resistance	≥ 1x10 <sup>3</sup> 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 (e)
Vibration and mechanical shock	DIN 72594-2 clause 8.1
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	11W150-104
Crimping tool - Incl. Crimp insert center contact	11W161-8M4

**Suitable cables**

Cable type	RTK 031
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**Packing**

Standard	10 / 500 / 5.000 / 20.000 pcs in box; center contact on reel
Weight	2.20 g/pce

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