



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**

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	PA 12	
Crimping ferrule	Copper	Nickel, 2.5-5 µm

FAKRA -  
HF

STRAIGHT JACK

**59K130-1E4A4**

**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	≤ 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
Vibration and mechanical shock	DIN 72594-2 clause 8.1
Dry heat	DIN 72594-2 clause 8.4
RoHS	compliant



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**Tooling**

Crimping tool	11W150-000
Crimp insert outer contact	11W150-108
Crimp tool with insert for the center contact	11W161-8E4

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