



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  
PA 12  
Copper

**Plating**

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

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

- Limitations are possible due to the used cable type -

**Tooling**

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

**Suitable cables**

Cable type	LEONI Dacar 037 ; Draka FL09YBCYW 1,1/2,9 DKB CommScope AMC-58 Low Loss EZ ; G&G 69337
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RF\_35/05.10/6.0

**Technical Data Sheet**

**Rosenberger**

**FAKRA  
HF**

**STRAIGHT PLUG**

**59S100-1E4A4**

**Packing**

59S100-106/90A  
59K13D-106/40A  
59S10L-1E4/20E

10/ 500/ 5.000/ 20.000 pcs in box

10.000 pcs in box

20.000 pcs on reel



Weight

2.64 g/pce

Rev.	Date	Change
b00	18.02.13	cable G&G 69337
c00	03.02.14	center contact marking 59S10L-1E4/20E and packing

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Mühlfellner	01.02.08	B. Huber	04.02.14	c00	14-0175	F. Hohenadl	04.02.14

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Page

3 / 3

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