



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

**Interface**

According to DIN 72594-1, USCAR 17

**Documents**

Assembly instruction MA\_59V059

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Contact spring
- Dielectric
- Crimping ferrule

**Material**

- Spring bronze
- Brass
- Stainless steel
- PA12-GB30 (d)
- Copper

**Plating**

- Gold, min. 0.8 µm, over nickel
- Nickel, 3-6 µm (d)
- N/A
- Nickel, 3-6 µm (d)

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF\_35/09.14/6.2

**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



**Tooling**

Crimping tool	11W150-000
Crimp insert outer contact	11W15B-503
Incl. Crimp insert center contact	11W161-800

**Suitable cables**

Cable type	RG 179 B/U-d , 1.5 DS
------------	-----------------------

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF\_35/09.14/6.2

**Technical Data Sheet****Rosenberger**

FAKRA-HF

STRAIGHT JACK

**59K130-103A4****Packing**

Standard

10 / 500 / 5.000 / 20.000 pcs in box

Weight

2.0 g/pce

**Change History**

Rev.	Date	Change
c00	01.12.16	Environmental data specification changed from 6.x to 8.x RoHS from "2002/95/EC (RoHS)" to "RoHS"
d00	07.03.17	Outer contact plating thickness from 2.5-5 $\mu$ m to 3-6 $\mu$ m Crimping ferrule plating thickness from 2.5-5 $\mu$ m to 3-6 $\mu$ m Dielectric material data: Added GB30 to PA12-GB30 according to precise material specification and delivery situation
e00	22.05.18	Added part numbers

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	08.01.07	A. Godow	22.05.18	e00	18-0880	C. Ostermaier	22.05.18

Rosenberger Hochfrequenztechnik GmbH & Co. KG  
P.O.Box 1260 D-84526 Tittmoning Germany  
[www.rosenberger.de](http://www.rosenberger.de)

Tel. : +49 8684 18-0  
Email : [info@rosenberger.de](mailto:info@rosenberger.de)

Page

3 / 3