



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

FAKRA -
HF

STRAIGHT PLUG

59S100-106A4

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 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
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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	28.11.16	Dielectric material data from PA 12 to PA12-GB30 DIN 72594-2 clause 6... to clause 8... RoHS from "2002/95/EC (RoHS)" to "RoHs"

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
T. Höfling	12.01.05	C. Anfang	07.12.16	e00	16-1976	R. Gnodtke	07.12.16

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de	Tel. : +49 8684 18-0 Email : info@rosenberger.de	Page 3 / 3
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RF_35/09.14/6.2