



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

Interface

According to

DIN 72594-1, USCAR 17

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, 3-6 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	≤ 0.1x √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
Dry heat	DIN 72594-2 clause 8.4

RoHS compliant

Tooling

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

Suitable cables

Cable type RG 179 B/U-d , Shikoku 1.5 DS- QFB - (TA) , RG 316 /U-d FEP, RG 316/ U-d LSZH
Sumitomo 1.5 DS-GXC-SP

Technical Data Sheet**Rosenberger**FAKRA -
HF

STRAIGHT PLUG

59S100-103A4**Packing**Standard
Weight10 / 500 / 5.000 / 20.000 pcs in box; center contact on reel
2.0 g/ pce**Change History**

Rev.	Date	Change
c00	03/04/13	Environmental data specification changed from 6.2 to 8.2, 6.3 to 8.3, 6.1 to 8.1, 6.4 to 8.4 and changed 2002/95/EC (RoHS) to RoHS Crimp insert outer contact changed from 11W150-308 to 11W15B-503

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
R. Bippus	19/01/07	R. Bippus	03/04/13	c00	13-0078	M. Müller	03/04/13
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