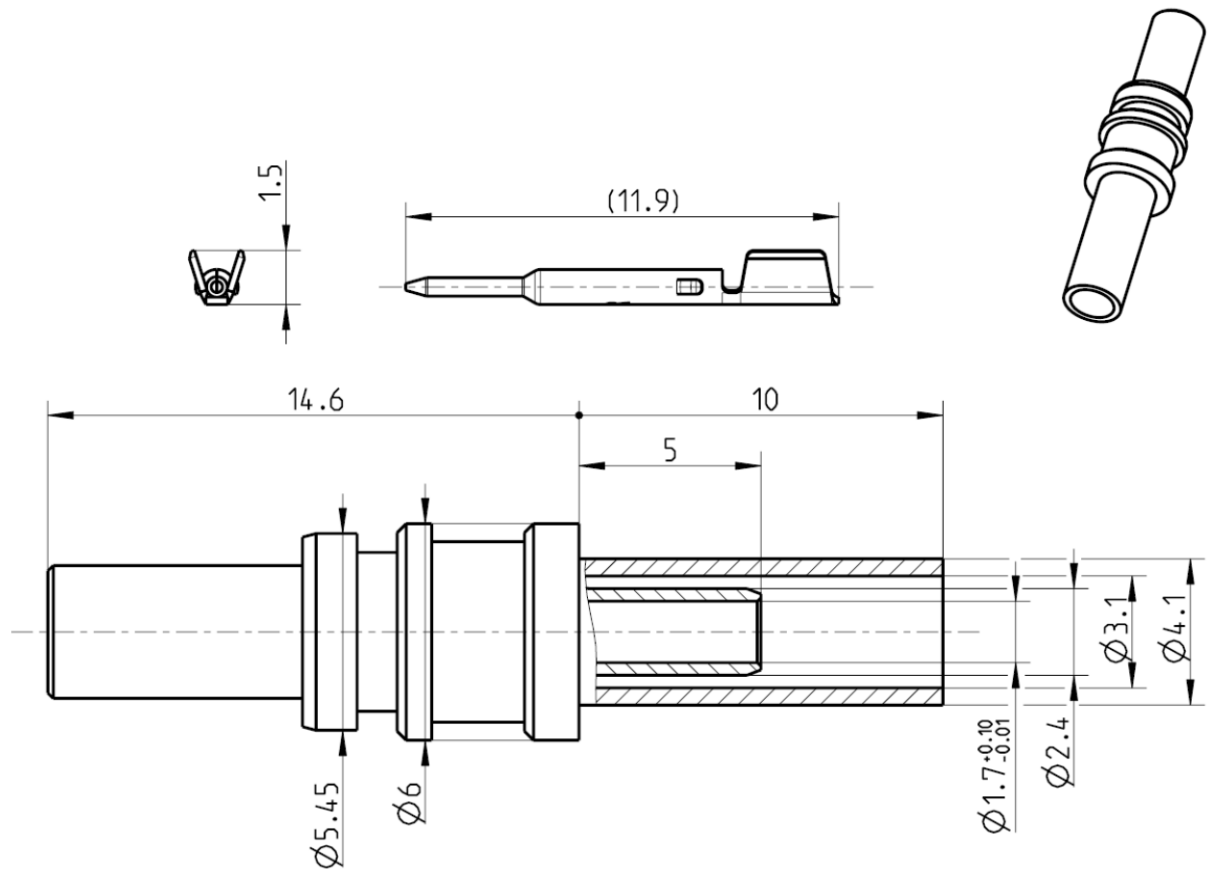




All dimensions are in mm; tolerances according to ISO 2768 m-H

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(f)
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 $\sqrt{f(\text{GHz})}$ 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

- Limitations are possible due to the used cable type -

Tooling

Crimping tool	11W150-000
Crimp insert outer contact	11W150-302
Crimping tool - Incl. Crimp insert center contact	11W161-800

Suitable cables

Cable type	RG 174; RG 316
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Packing

Standard	10 / 500 / 5.000 / 20.000 pcs in box; center contact on reel
Weight	2.0 g/pce

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RF_35/09.14/6.2

Technical Data Sheet				Rosenberger									
FAKRA - HF		STRAIGHT PLUG		59S100-102A4									
Change History <table border="1"><thead><tr><th>Rev.</th><th>Date</th><th>Change</th></tr></thead><tbody><tr><td>f00/f01</td><td>14.03.17</td><td>-Dielectric material data: Added GB30 to PA12-GB30 according to precise material specification and delivery situation -DIN 72594-2 clause 6... to clause 8... -RoHS from "2002/95/EC (RoHS)" to "RoHS"</td></tr></tbody></table>								Rev.	Date	Change	f00/f01	14.03.17	-Dielectric material data: Added GB30 to PA12-GB30 according to precise material specification and delivery situation -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	14.03.17	f01	17-0384	R. Gnodtke	14.03.17						
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