



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

Interface

According to DIN 72594-1
Waterproof only guaranteed with 59S0WP-FAK

Remarks

Available Waterproof jack for the
Inline connection 59K14B-102A4-Y
59K14B-1M4A4-Y

Documents

Assembly instruction MA_59V067

Material and plating

Connector parts

	Material	Plating
Center contact	Spring bronze	Gold, min. 0.8 µm, over nickel
Outer contact	Brass	Nickel, 2.5-5 µm
Dielectric	PA 12	
Crimping ferrule	Brass	Nickel, 2.5-5 µm
Sealing ring	Silicone	Red
Cable gasket	Silicone	Blue
Plastic sleeve	PA12	Blue

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 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	≥ 5
Engagement force	≤ 25 N
Disengagement force	≥ 2 N

Environmental data

Temperature range	-40°C to +130°C
Thermal shock	DIN 72594-2 clause 6.2
Temperature and humidity	DIN 72594-2 clause 6.3
Vibration and mechanical shock	DIN 72594-2 clause 6.1
Dry heat	DIN 72594-2 clause 6.4
Water resistant	DIN 40050 IPX6K/IPX9K
Waterproof engine compartment connector 2002/95/EC (RoHS)	LV 214 Test group B,C compliant

- Limitations are possible due to the used cable type -

Tooling

Crimping tool	11W150-000
Crimp insert	11W15D-104
Crimp insert center contact	11W161-8M4

Suitable cables

Cable type	RTK 031 or min Cable Ø 3.1
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Packing

Standard	1.000 pcs in box
Weight	2.56 g/pce

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
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