



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

Interface

According to

DIN 72594-1
ISO 20860-1



Documents

Assembly instruction

MA_59V042

Material and plating

Connector parts

- Center contact
- Center contact 2
- Outer contact
- Body
- Dielectric
- Chrimp ferrule
- Cover

Material

- Spring bronze
- Brass
- Spring bronze
- Brass
- PBT
- Copper
- Alpaca

Plating

- Gold, min. 0.8 µm, over chemical nickel
- Gold, min. 0.15 µm, over chemical nickel
- Nickel, 2.5-5 µm
- Nickel, 2.5-5 µm

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Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 26 dB, DC to 1 GHz ≥ 24 dB, DC to 3 GHz ≥ 17 dB, DC to 6 GHz
Insertion loss	≤ 0.1 x √f(GHz) dB @ 1GHz
Insulation resistance	≥ 1x10 ³ MΩ
Center contact resistance	≤ 15 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	min. 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	11W150-504

Suitable cables

Cable type	RTK 031
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Packing

Standard	1000 pcs in box, 4000 pcs in returnable container
Weight	2,57 g/pce

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Change Historie

Rev.	Date	Change
d00	02.11.15	Drawing: -tolerance added to 11.3 (11.3±0.1) and 3.9 (3.9-0.07) Interface: -ISO 20860-1 added Environmental data: - Environmental data specification changed from " DIN 72594-2 clause 6.x" to "...8.x" - specification changed from "2002/95/EC (RoHS)" to "RoHS"
e00	08.06.16	new picture of the drawing

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
W. Lankes	15.02.07	C. Anfang	08.06.16	e00	16-0902	T. Koschel	08.06.16
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