



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

Interface

According to

ISO 20860-1; USCAR18-4; (b)

Documents

Assembly instruction

MA_59V047 and subordinate documents (b)

Material and plating

Connector parts

- Center contact
- Outer contact
- Dielectric
- Crimping sleeve

Material

- Spring bronze
- Spring bronze
- PA12-GB30
- Spring bronze

Plating

- Gold, min. 0.8 μ m, over chemical nickel
- Tin, 1,5-3 μ m
- Tin, 1,5-3 μ m

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Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≤ -28 dB, DC to 1 GHz ≤ -20 dB, DC to 4 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 (optional)	≥ 60 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 25 (b)
Engagement force	≤ 25N
Disengagement force	≥ 2N

Environmental data

Temperature range	-40°C to +105°C
Thermal shock	ISO 20860-2 clause 9.2
Temperature and humidity	ISO 20860-2 clause 9.3 (b)
Vibration and mechanical shock	ISO 20860-2 clause 9.1
Dry heat	ISO 20860-2 clause 9.4
RoHS	compliant

- Limitations are possible due to the used cable type -

Tooling

Crimp dimension acc. to assembly instruction

Suitable cables

Cable type see assembly instruction (b)

Packing

Standard not packed
Weight 1.39 g/pce

Change History

Rev.	Date	Change
b00	03.11.20	-Added USCAR18 and ISO 20860-1 -Added subordinate documents -Mating cycles changed from ≤ to min. -Conversion to the ISO standards -Cable types are listed in the installation instructions.

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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