



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

Interface

According to DIN 72594-1

Documents

Assembly instruction MA_59V043

Material and plating

Connector parts

- Center contact
- Outer contact
- Dielectric
- Crimping sleeve

Material

- Spring bronze
- Spring bronze
- PA 12
- Spring bronze

Plating

- Gold, min. 0.15 µm, over chemical nickel
- Tin, 0.5-2 µm
- Tin, 0.5-2 µm

Preliminary

Electrical data

Impedance	50 Ω
Frequency	DC to 3 GHz
Return loss	≤ -30 dB, DC to 1 GHz ≤ -28 dB, DC to 2 GHz ≤ -25 dB, DC to 3 GHz ≤ -17 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)	≥ 53 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

Preliminary

Environmental data

Temperature range	-40°C to +105°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
2002/95/EC (RoHS)	compliant

- Limitations are possible due to the used cable type -

Tooling

Crimp dimension acc. to assembly instruction

Suitable cables

Cable type	RG 58LL
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Packing

Standard	
59K16A-106/90	33000 pcs (22 reel/carton; 1500 pcs on reel)
59S16A-106/40T	95000 pcs (38 reel/carton; 2500 pcs on reel)
59K16A-102/20E	500/5000/20000 pcs on reel
Weight	2.41 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.

RF_35/12.04/3.0

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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