



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

**Interface**

According to DIN 72594-1

**Documents**

Assembly instruction MA\_59V059

**Material and plating**

**Connector parts**

Connector parts	Material	Plating
Center contact	Spring bronze	Gold, min. 0.8 µm, over nickel
Outer contact	Brass	Nickel, 3-6 µm
Contact spring	Stainless steel	N/A
Dielectric	PA 12	
Crimping ferrule	Copper	Nickel, 2.5-5 µm

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**59K130-1E4A4**

**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 <sup>3</sup> 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	11W150-108
Crimp tool with insert for the center contact	11W161-8E4

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**59K130-1E4A4**

**Suitable cables**

Cable type

LEONI Dacar037 ; Draka FL09YBCYW 1,1/2,9 DKB ;  
CommScope AMC-58 Low Loss EZ, G&G 69337



**Packing**

Standard  
Weight

500 pcs in box  
2.39 g/pce

**Change History**

Rev.	Date	Change
b00	18/02/13	Cable G&G 69337
c00	05/08/13	Environmental data specification changed from "6.2" to "8.2", "6.3" to "8.3", "6.1" to "8.1", "6.4" to "8.4" and "2002/95/EC (RoHS)" changed to "RoHS" Subassembly no.: "59K13D-1E4/20A" changed to "59K13D-1E4/20E"
d00	27/08/13	inadvertent text failure inadvertently checked out of system

*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
T. Höfling	12/01/05	A. Richter	27/08/13	d00	13-0118	M. Kotewitz	27/08/13