

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

**Interface**

According to

15K101-40M  
IEC 60169-15

**Suitable cables**

RTK 013, cable group H1

Micro coax cable  $d=1.37\text{mm}$ , center conductor AWG30  
Connector are only sold with cable  
Minimum bending radius single  $4x \varnothing$   
Minimum bending radius repeated  $8x \varnothing$

**Available Variants**

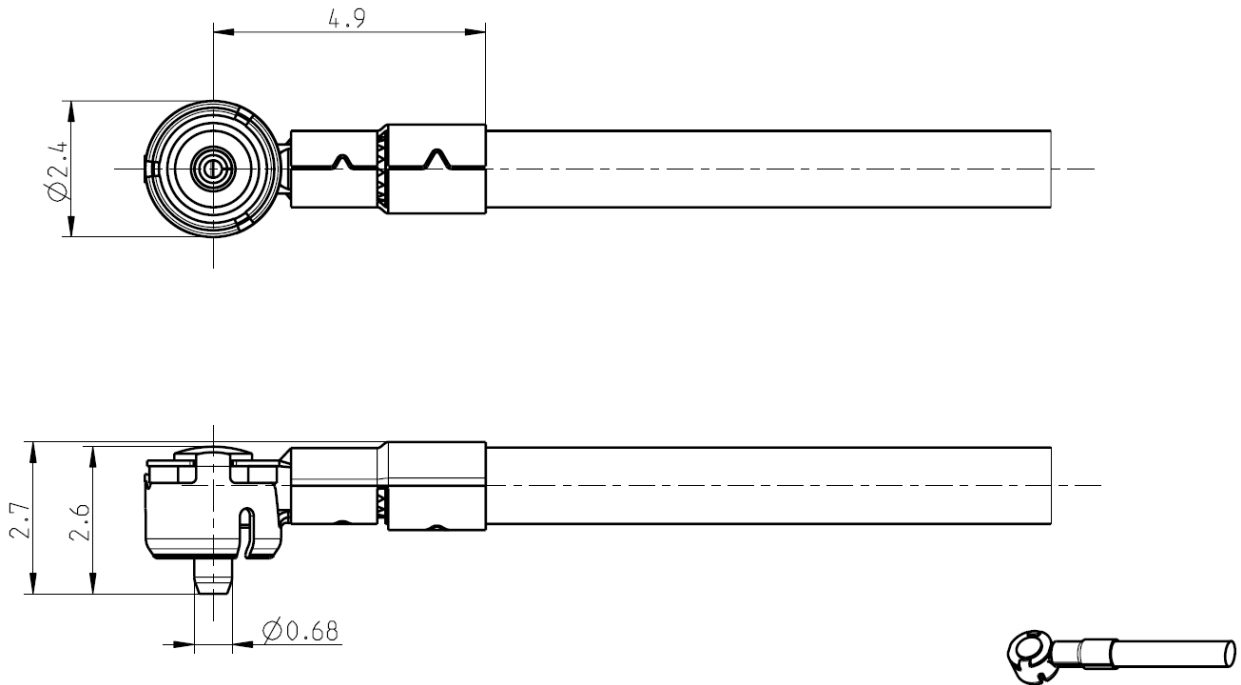
Type	Cable	Length a [mm]	Weight [g]
LH1-099-100	H1	100	4.6
LH1-099-115	H1	115	4.7
LH1-099-200	H1	200	5.0
LH1-099-300	H1	300	5.5

Standard length available and customized length on request.

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**Technical Data 15S202-1H1**



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**Interface**

According to 15K101-40M RF Test Switch

**Material and plating**

**Connector parts**

	<b>Material</b>	<b>Plating</b>
Center contact	Spring bronze	0.15µm Au over 2-3µm Ni
Outer contact	Spring bronze	0.15µm Au over 2-3µm Ni
Cover	Spring bronze	0.15µm Au over 2-3µm Ni
Isolator	TPX	

**Electrical data**

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ -26 dB, DC to 2 GHz ≥ -23 dB, 2 to 4 GHz ≥ -18 dB, 4 to 6 GHz
Insulation resistance	≥ 0.5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 50 mΩ
Outer contact resistance	≤ 100 mΩ
Working voltage	4 V

**Mechanical data**

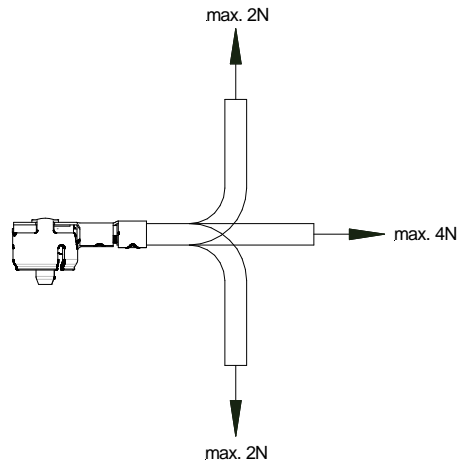
Mating cycles	≥ 25
Mating force	≤ 45 N
Unmating force	≥ 2N
Mated height	2.4 mm

**Environmental data**

Temperature range	-40°C to +90°C
Storage temperature	-40°C to +90°C
RoHS	compliant

**Cable load**

After mating do not apply higher forces than defined in the picture below.



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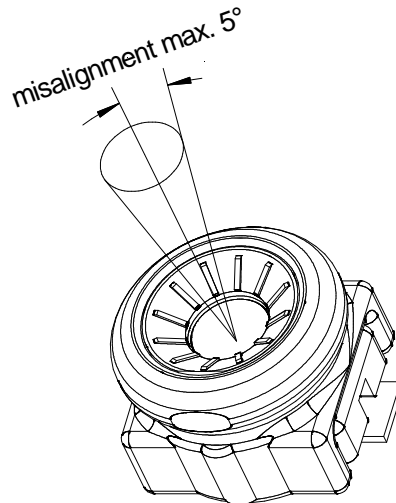
**Mating and un-mating**

For the reliable un-mating of the cable connector a special tool is dedicated:

Un-mating tool 15W003-000

Usage remarks:

1. The vertical mating axis of the PCB receptacle and the cable connector has to be aligned during the connecting and a click will confirm that the connectors are mated correctly.
2. The disconnection of the 2 connectors is carried out vertically with the tool 15W003-000 in the mating axis of the 2 connectors.
3. The connectors should not be mated under an extreme angle.
4. Avoid the forcefull twisting or deforming of the cable.



**Packing**

LH1-099-100	20 pcs in plastic bag
LH1-099-115	xx pcs in plastic bag
LH1-099-200	xx pcs in plastic bag
LH1-099-300	10 pcs in plastic bag

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
Georg Lapper	17/09/13	C. Kainzmaier	04.08.15	500	15-v417	M. Schönsmaul	04.08.15