

dimensions are in mm; tolerances: $\pm 3\text{mm}$ for $a \leq 300\text{mm}$; $\pm 1\%$ for $> 300\text{mm}$

Cables

Cable group H1

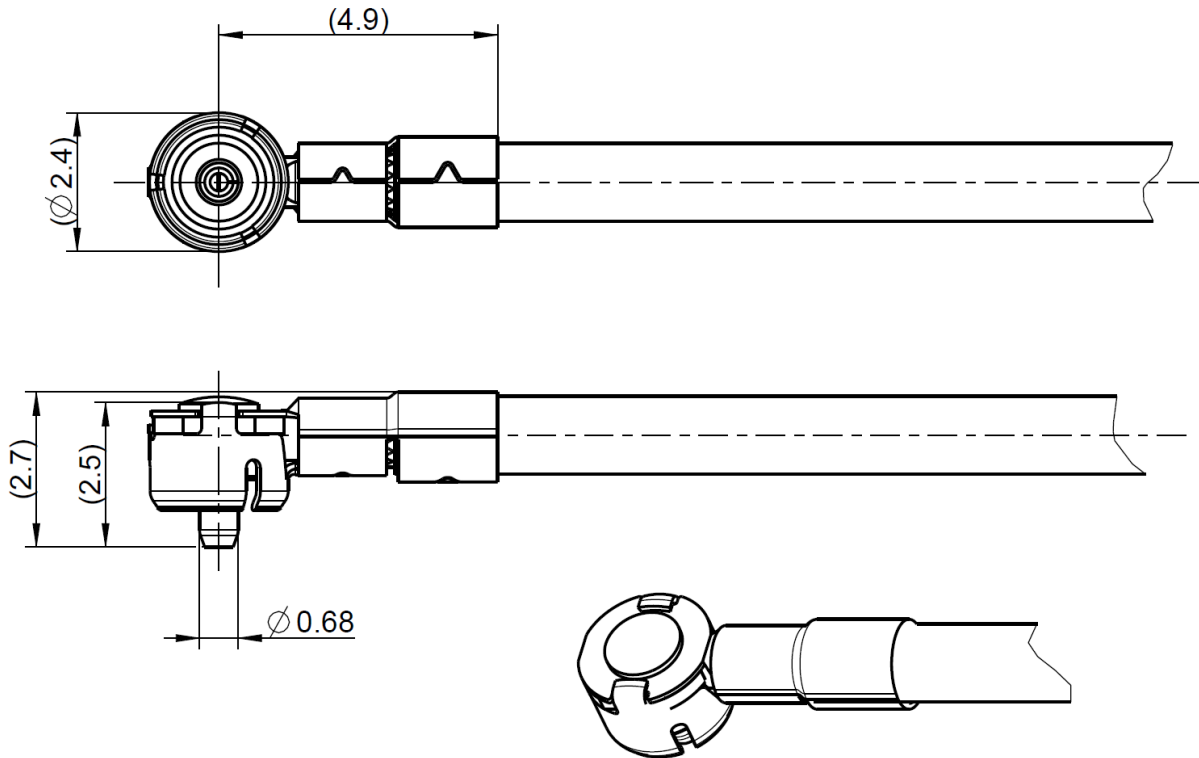
Micro coax cable $d=1.37\text{mm}$, center conductor AWG30
 Connector are only sold with cable.
 Picture on data sheet show an assembly example
 Minimum bending radius single $4x \varnothing$
 Minimum bending radius repeatable $8x \varnothing$

Available Variants

Type	Cable	Weight [$\pm 0,1\text{g}$]
LH1-071-XXX	H1 (RTK013)	$4,6 \cdot 10^{-3} (\text{g/mm}) * a(\text{mm})$

XXX: length in mm = "a"

Technical Data 15S202-1H1



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

Interface

According to 15K101-40M RF Test Switch

Material and plating

Connector parts

Center contact
Outer contact
Cover
Isolator

Material

Brass
Spring bronze
Spring bronze
TPX

Plating

0.15µm Au over 2-3 µm Ni
0.15µm Au over 2-3 µm Ni
0.15µm Au over 2-3 µm Ni

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 ³ MΩ
Center contact resistance	≤ 50 mΩ
Outer contact resistance	≤ 100 mΩ
Shielding effectiveness	> 40 dB up to 3 GHz > 35 dB up to 6 GHz

Mechanical data

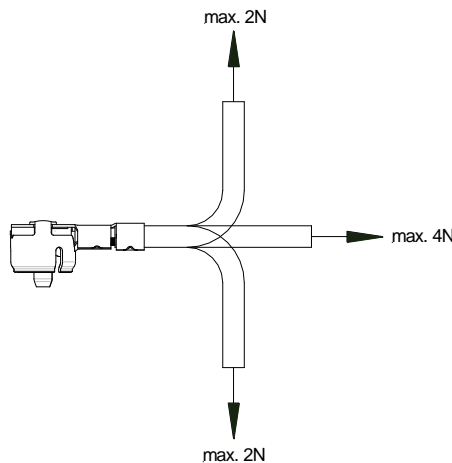
Mating cycles	≥ 25
Mating force	≤ 45 N
Unmating force	≥ 2N
Mated height	2.4 mm

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.



Mating and un-mating

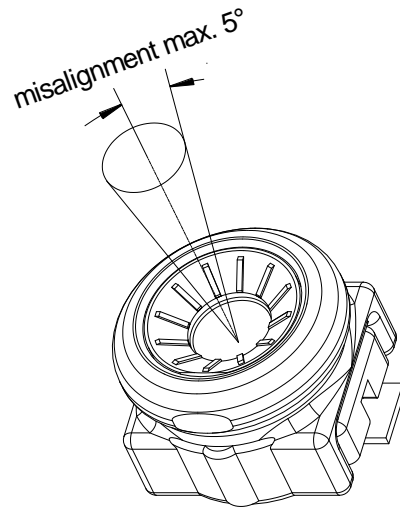
For the reliable un-mating of the cable connector a special tool is dedicated :
 Un-mating tool 15W002-000
 compliant

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/09.14/6.2

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 15W002-000 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

Standard

x 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
F. Michelmann	31.01.07	C. Kainzmaier	08.06.18	g00	18-0940	M. Margardt	08.06.18

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel. : +49 8684 18-0 Email : info@rosenberger.de			Page 4 / 4
--	--	--	--	--	--	--	---------------

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rosenberger:](#)

[LH1-071-300](#) [LH1-099-300](#) [LH1-021-300](#)