

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

#### Cables

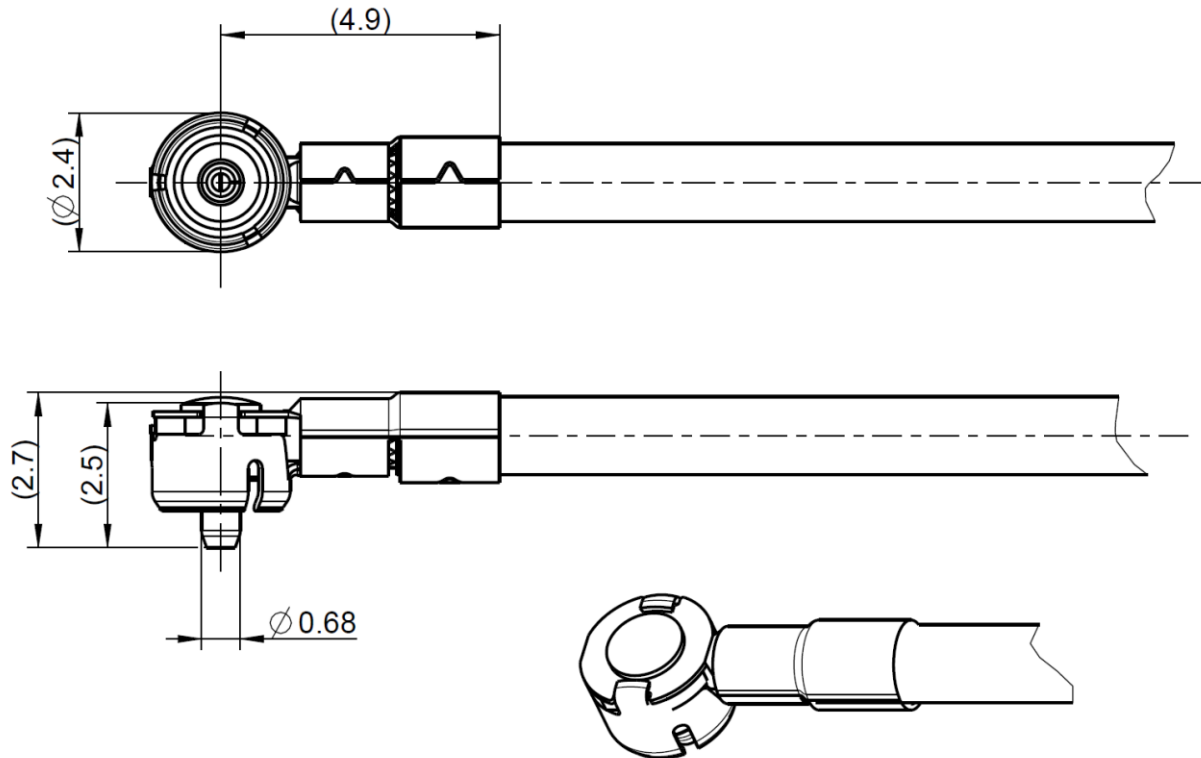
Cable group H1

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  $4 \times \varnothing$   
 Minimum bending radius repeatable  $8 \times \varnothing$

#### 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 $\Omega$
Frequency	DC to 6 GHz
Return loss	$\geq -26$ dB, DC to 2 GHz
	$\geq -23$ dB, 2 to 4 GHz
	$\geq -18$ dB, 4 to 6 GHz
Insulation resistance	$\geq 0.5 \times 10^3$ M $\Omega$
Center contact resistance	$\leq 50$ m $\Omega$
Outer contact resistance	$\leq 100$ m $\Omega$
Shielding effectiveness	$> 40$ dB up to 3 GHz
	$> 35$ dB up to 6 GHz

**Mechanical data**

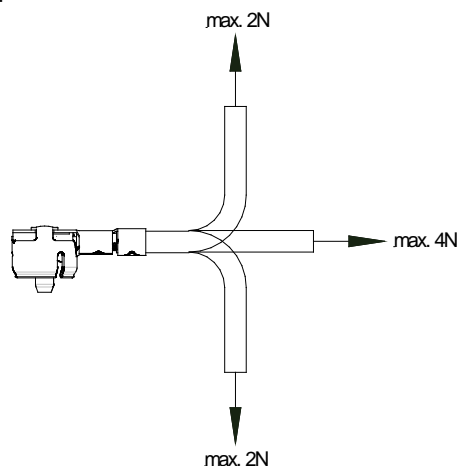
Mating cycles	$\geq 25$
Mating force	$\leq 45$ N
Unmating force	$\geq 2$ N
Mated height	2.4 mm

**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.

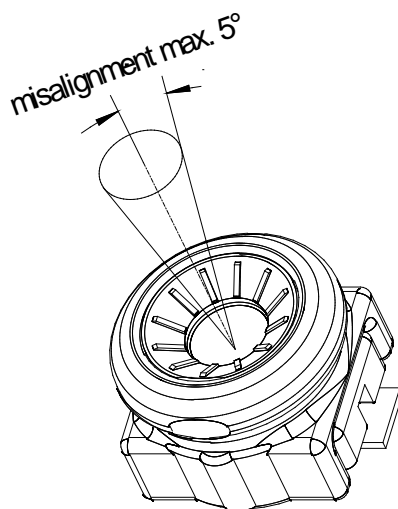
**Mating and un-mating**

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

Un-mating tool 15W002-000

## 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
Michelmann Folke	31.01.07	C.Kainzmaier	02.12.16	f00	16-0004	S.Hofmeister	02.12.16
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>				Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>			Page 4 / 4