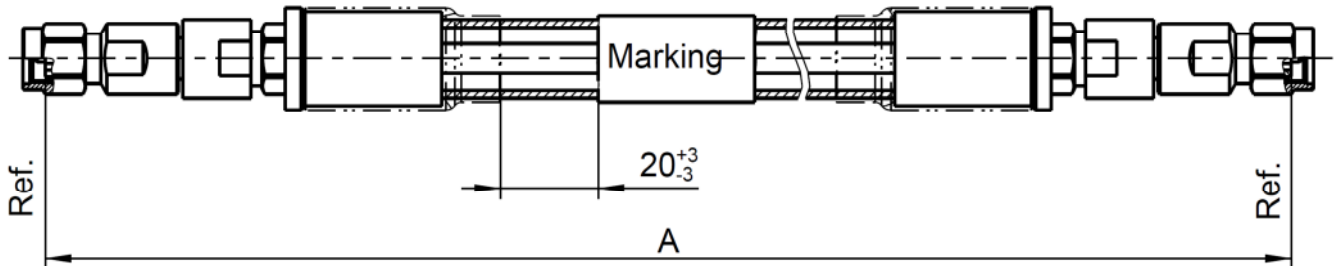


# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-2.92 Plug / RPC-2.92 Plug - RTK 106 – T1 Armour

## LU1-037-XXX



All dimensions are in mm; tolerances:  $\pm 3$  mm for  $A \leq 300$  mm;  $\pm 1\%$  for  $A > 300$  mm

### Available variants

Type	max. Insertion loss at 40 GHz	Marking	Weight (g) / pce
LU1-037-XXX	$\leq 0.00285 \text{ dB/mm} * A \text{ mm} + 0.6 \text{ dB}$	ROSENBERGER YYY-YY LU1-037-XXX FAC-RRRRRRR ssss	$0.233 \text{ g/mm} * A \text{ mm} + 36 \text{ g}$

XXX – length in mm = A

WW – week

YYYY – year

ssss – serial no.

FAC – Factory Code

RRRRRRR – lot nr.

Note:

max. Insertion Loss:

First constant = Cable attenuation in dB /mm; Second Constant = Connector left and Connector right +needed Adaptor

Weight:

First constant = Cable- and Armour- weight per mm; Second Constant = Connector left and Connector right weight per pce

### Assembly parts

Connector left	RPC-2.92 plug	02S122-2U1S3
Connector right	RPC-2.92 plug	02S122-2U1S3
Cable	RTK 106	
Armour	Polyurethane Jacket over Braid/Stainless Steel Spiral	

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 40 GHz
Return loss <sup>1</sup>	$\geq 17 \text{ dB}$ , DC to 40 GHz
Insertion loss <sup>1</sup>	see table available variants
RF-leakage	$\geq 100 \text{ dB}$ up to 1 GHz

Individual testing and documentation:

Measurement plot with all 4 S-Parameters (S11; S22; S21; S12) is included with the cable assembly and on the backside the care and handling instruction is printed. Measurement adaptors used are mentioned in the commentary field.

<sup>1</sup> Return Loss and Insertion Loss includes the measurement adaptor

# Technical Data Sheet

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## Cable assembly

RPC-2.92 Plug / RPC-2.92 Plug - RTK 106 – T1 Armour

## LU1-037-XXX

### Mechanical data

Minimum bend radius:

Single 25.5. mm

Multiple 38.4 mm

Crush resistance 80 N/mm

### Environmental data

Temperature range -40°C to +80°C

RoHS compliant

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. Reiner	08.07.16	Martin Moder	14.07.16	b00	16-s212	A. Youmsi Mouafo	14.07.16

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