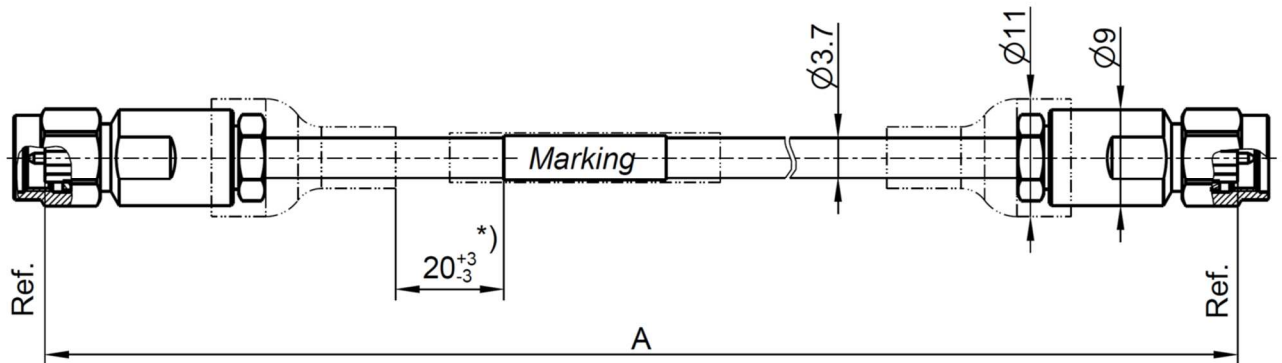


# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-2.92 plug – RTK 106 – RPC-2.92 plug

## LU1-500-XXX



All dimensions are in mm; tolerances:  $\pm 3$  mm for  $A \leq 300$  mm;  $\pm 1\%$  for  $A > 300$  mm  
\*) If length "A" < 200 mm marking is mount centric  $\pm 5$  mm

### Available variants

Type	Insertion loss at 40 GHz	Marking	Weight (g) / pce
LU1-500-XXX	$\leq 0.00285 \text{ dB/mm} * A \text{ mm} + 0.9 \text{ dB}$	ROSENBERGER LU1-500-XXX FAC-RRRRRRR sss	$0.0361 \text{ g/mm} * A \text{ mm} + 16 \text{ g}$

XXX – length in mm = A

sss – serial no.

FAC – Factory Code

RRRRRRR – lot no.

Barcode = includes factory code, lot no. and serial no.

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	02S129-2U1S3
Connector right	RPC-2.92 plug	02S129-2U1S3
Cable	RTK 106	

### 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

Individual testing and documentation:

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

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

# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-2.92 plug – RTK 106 – RPC-2.92 plug

## LU1-500-XXX

### Mechanical data

Minimum bend radius:  
Single 20 mm  
Multiple 40 mm

### Environmental data

Temperature range -40°C to +85°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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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RF\_35/09;14/6.2

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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