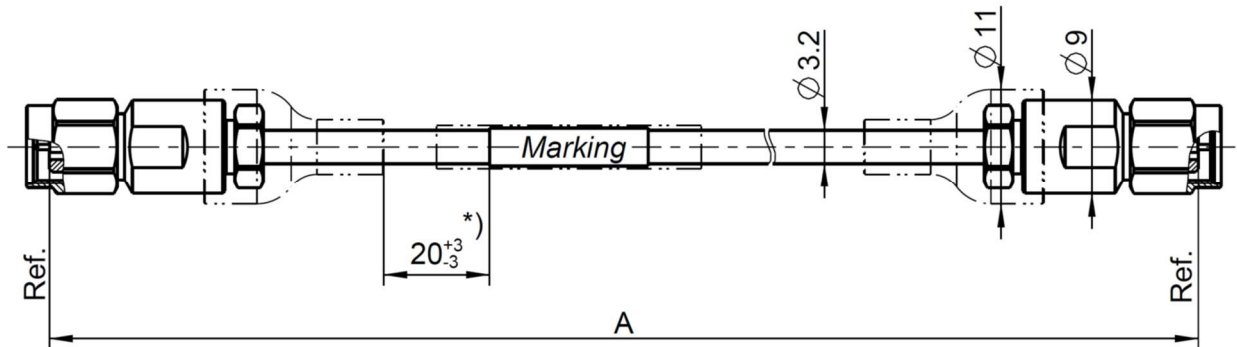



Cable assembly  
RPC-2.40 plug – RTK 125 – RPC-2.40 plug

**LU8-500-XXX**



All dimensions are in mm; tolerances:  $\pm 3$ mm for  $A \leq 300$  mm;  $\pm 1\%$  for  $A > 300$  mm  
\*) If length "A" < 150 mm marking is mount centric  $\pm 5$  mm

**Available variants**

Type	Insertion loss at 50 GHz	Marking	Weight (g) / pce
LU8-500-XXX	$\leq 0.00397 \text{ dB/mm} * A \text{ mm} + 0.9 \text{ dB}$	ROSENBERGER ssss LU8-500-XXX FAC-RRRRRRR 	$0,027 \text{ g/mm} * A \text{ mm} + 14.4 \text{ g}$

XXX – length in mm = A  
ssss – 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-2.40 plug	09S129-2U8S3
Connector right	RPC-2.40 plug	09S129-2U8S3
Cable	RTK 125	

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 50 GHz
Return loss <sup>1</sup>	$\geq 16.5 \text{ dB}$ , DC to 50 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

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

RF\_35/09;14/6.2

# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-2.40 plug – RTK 125 – RPC-2.40 plug

## LU8-500-XXX

### Mechanical data

Minimum bend radius:  
Multiple 32 mm

### Environmental data

Temperature range -40°C to +85°C  
RoHS compliant

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

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
Martin Moder	20.05.19	H. Babinger	25.01.23	a00	23-s026	A. Youmsi	25.01.23

Rosenberger Hochfrequenztechnik GmbH & Co. KG  
P.O.Box 1260 D-84526 Tittmoning Germany  
[www.rosenberger.de](http://www.rosenberger.de)

Tel. : +49 8684 18-0  
Email : [info@rosenberger.de](mailto:info@rosenberger.de)

Page  
2 / 2

RF\_35/09;14/6.2