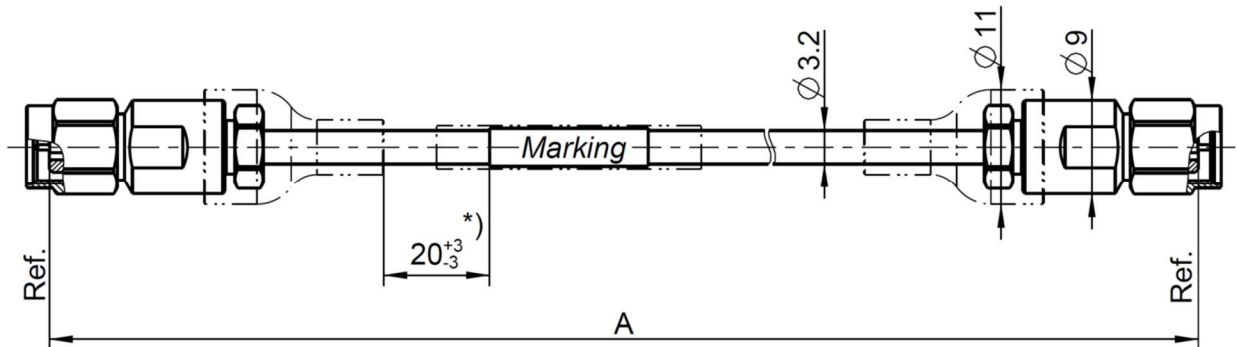



Cable assembly  
RPC-2.40 plug – RTK 125 – RPC-2.40 plug

**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<br>LU8-500-XXX FAC-RRRRRRR<br> | $0,027 \text{ g/mm} * A \text{ mm} + 14.4 \text{ g}$ |

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

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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

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 | 10.09.19 | 100  | 19-v502                   | A. Youmsi | 10.09.19 |

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