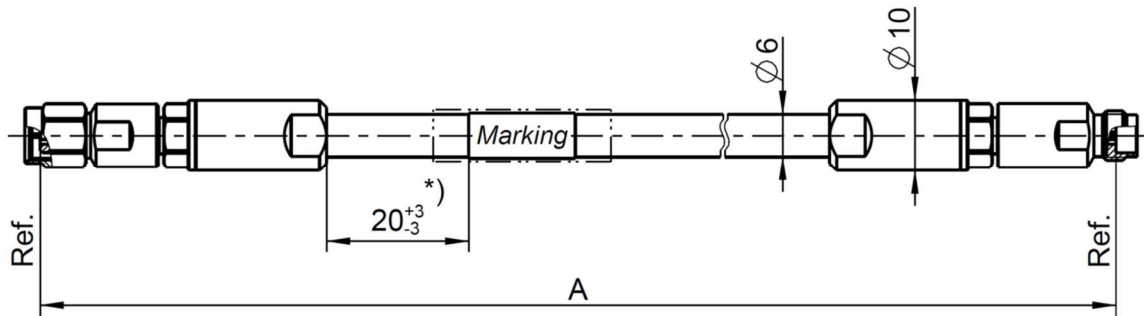


# Technical Data Sheet

# Rosenberger


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

## LU8-503-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                                   |
|-------------|--|---|--|
| LU8-503-XXX | $\leq 0.00397 \text{ dB/mm} * A \text{ mm} + 0.9 \text{ dB}$ | ROSENBERGER<br>LU8-503-XXX FAC-RRRRRRR<br> | $0.087 \text{ g/mm} * A \text{ mm} + 28 \text{ g}$ |

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 jack   | 09K129-2U8S3  |
| Cable           | RTK 125         |               |
| Armour          | T3 Armour       |               |
| Clamping sleeve | Stainless steel | 09S129-2U8/43 |
| Tension sleeve  | Stainless steel | 02S129-2U1/44 |

### 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

# Technical Data Sheet

# Rosenberger

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

## LU8-503-XXX

### Mechanical data

Minimum bend radius:  
Multiple 32 mm

### Environmental data

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

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| Draft        | Date     | Approved    | Date     | Rev. | Engineering change number | Name      | Date     |
|--------------|----------|-------------|----------|------|---------------------------|-----------|----------|
| Martin Moder | 20.05.19 | H. Babinger | 18.09.19 | 100  | 19-v502                   | A. Youmsi | 18.09.19 |

|  |  |               |
|--|--|---------------|
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|--|--|---------------|

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