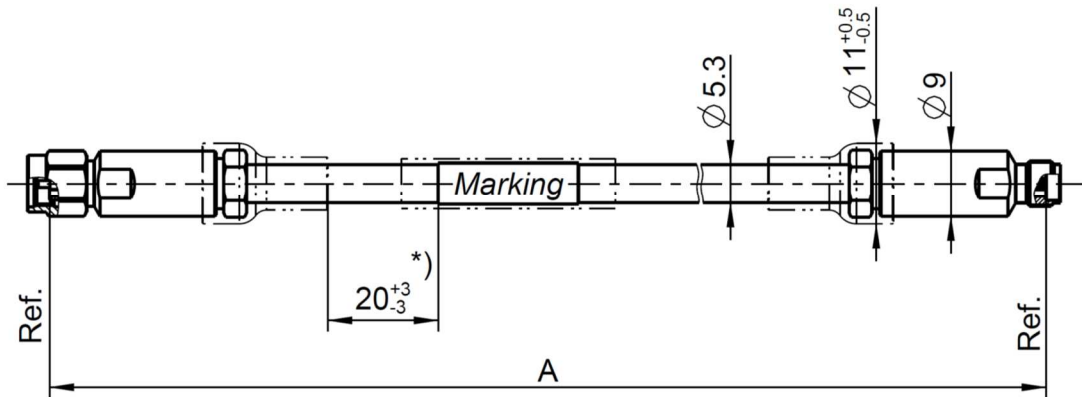



Cable assembly  
RPC-3.50 plug – RTK 162 – RPC-3.50 jack

**LU7-507-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 26.5 GHz                                   | Marking   | Weight (g) / pce                                   |
|-------------|--|---|--|
| LU7-507-XXX | $\leq 0.00203 \text{ dB/mm} * A \text{ mm} + 0.4 \text{ dB}$ | ROSENBERGER ssss<br>LU7-507-XXX FAC-RRRRRRR<br> | $0.063 \text{ g/mm} * A \text{ mm} + 17 \text{ g}$ |

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-3.50 plug | 03S129-2U7S3 |
| Connector right | RPC-3.50 jack | 03K129-2U7S3 |
| Cable           | RTK 162       |              |

**Electrical data**

|                             |                                       |
|-----------------------------|---------------------------------------|
| Impedance                   | 50 $\Omega$                           |
| Frequency                   | DC to 26.5 GHz                        |
| Return loss <sup>1</sup>    | $\geq 19 \text{ dB}$ , DC to 26.5 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-3.50 plug – RTK 162 – RPC-3.50 jack

## LU7-507-XXX

### Mechanical data

Minimum bend radius:  
Multiple 53 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     |
|----------|----------|-------------|----------|------|---------------------------|-----------|----------|
| M. Moder | 05.04.19 | H. Babinger | 22.04.21 | a00  | 21-s091                   | A. Youmsi | 22.04.21 |

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

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