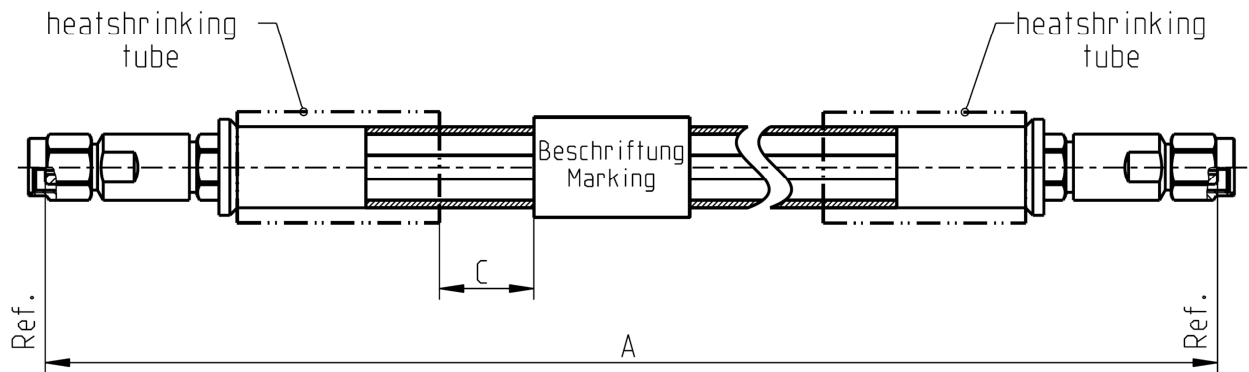


Cable assembly  
RPC-1.85 Plug / Plug – RTK 092-70 – T1 Armour

**LU5-103-XXX**



All dimensions are in mm; tolerances: ± 3mm for A ≤ 300 mm; ± 1% for A > 300 mm

**Available variants**

| Type        | max. Insertion loss at 70 GHz                                 | Marking   | Weight (g) / pce                                    |
|-------------|---|---|---|
| LU5-103-XXX | $\leq 0.00639 \text{ dB/mm} * A \text{ mm} + 0.90 \text{ dB}$ | ROSENBERGER YYY-<br>LU5-103-XXX<br>FAC-RRRRRRR ssss | $0.1641 \text{ g/mm} * A \text{ mm} + 29 \text{ g}$ |

XXX – length in mm = A  
 WW – week      YYYY – year      ssss – serial no.      FAC – Factory Code      RRRRRRR – lot nr.

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-1.85 plug   | 08S128-2U5S3 |
| Connector right | RPC-1.85 plug   | 08S128-2U5S3 |
| Cable           | RTK 092-70  |              |
| Armour          | T1 armour - outer diameter 9.3mm<br>(Polyurethane jacket over braid / stainless steel spiral) |              |

**Electrical data**

|                             |                              |
|-----------------------------|------------------------------|
| Impedance                   | 50 Ω                         |
| Frequency                   | DC to 70 GHz                 |
| Return loss <sup>1</sup>    | ≥ 14 dB, DC to 70 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) is included with the cable assembly and on the backside the care and handling instruction is printed. 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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# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-1.85 Plug / Plug – RTK 092-70 – T1 Armour

## LU5-103-XXX

### Mechanical data

Minimum bend radius:  
Single 12.7 mm  
Multiple 38.1 mm

### Environmental data

Temperature range -40°C to +80°C  
RoHS compliant

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| Draft        | Date     | Approved         | Date     | Rev. | Engineering change number | Name          | Date     |
|--------------|----------|------------------|----------|------|---------------------------|---------------|----------|
| Martin Moder | 08.02.12 | Herbert Babinger | 07.05.15 | c00  | 15-0565                   | A. Youmsi Mou | 07.05.15 |

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