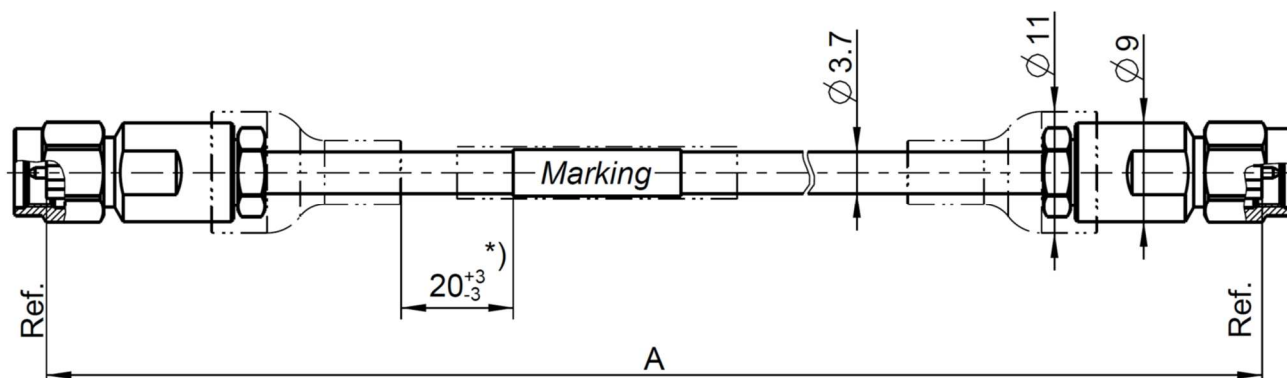


Technical Data Sheet

Rosenberger

Cable assembly
RPC-2.92 plug – RTK 106 – RPC-2.92 plug


LU1-500-XXX



All dimensions are in mm; tolerances: $\pm 3\text{ mm}$ for $A \leq 300\text{ mm}$; $\pm 1\%$ for $A > 300\text{ mm}$

*) If length "A" < 150 mm marking is mount centric $\pm 5\text{ mm}$

Available variants

| Type | Insertion loss at 40 GHz | Marking | Weight (g) / pce |
|-------------|---|--|--|
| LU1-500-XXX | $\leq 0.00285\text{ dB/mm} \cdot A\text{ mm} + 0.9\text{ dB}$ | ROSENBERGER LU1-500-XXX FAC-RRRRRRR  | $0.0361\text{ g/mm} \cdot A\text{ mm} + 16\text{ g}$ |

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-2.92 plug | 02S129-2U1S3 |
| Connector right | RPC-2.92 plug | 02S129-2U1S3 |
| Cable | RTK 106 | |

Electrical data

| | |
|-----------------------------|------------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 40 GHz |
| Return loss ¹ | $\geq 17\text{ dB}$, DC to 40 GHz |
| Insertion loss ¹ | 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.

¹ Return Loss and Insertion Loss includes the measurement adaptor

| | | | | | | | |
|---|----------|------------------|----------|--|---------------------------|----------|-------------------|
| Technical Data Sheet | | | | Rosenberger | | | |
| Cable assembly RPC-2.92 plug – RTK 106 – RPC-2.92 plug | | | | LU1-500-XXX | | | |
| <div>Mechanical data</div> <div>Minimum bend radius: Single20 mm Multiple40 mm</div> <div>Environmental data</div> <div>Temperature range-40°C to +85°C RoHScompliant</div> | | | | | | | |
| <p>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.</p> | | | | | | | |
| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| Martin Moder | 14.03.19 | Herbert Babinger | 28.04.21 | 101 | 21-0004 | A.Youmsi | 28.04.21 |
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