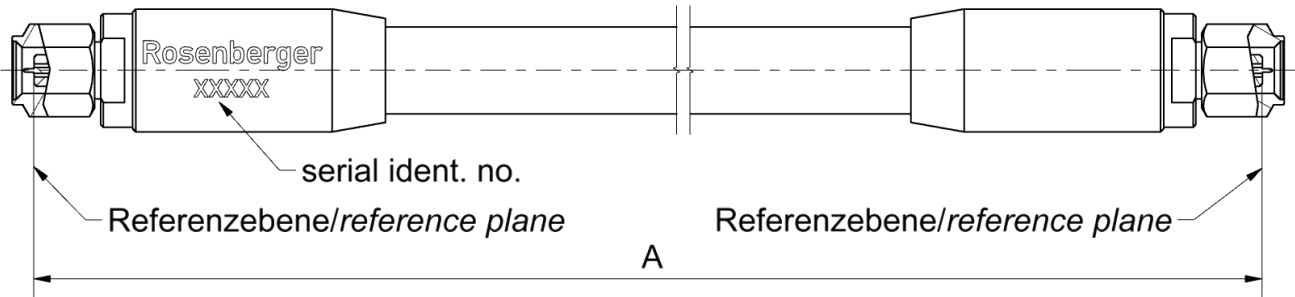


Technical Data Sheet

Rosenberger

Cable assembly
RPC-1.00 Plug – RTK 047-F – RPC-1.00 Plug

L70-310-XXX



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

Available variants

| Type | max. Insertion loss | Weight (g) / pce |
|-------------|--|---|
| L70-310-XXX | $\leq (0.0020 * \sqrt{f[\text{GHz}]} + 0.00008 * f[\text{GHz}]) \frac{\text{dB}}{\text{mm}}$ | $0.070 \frac{\text{g}}{\text{mm}} * A[\text{mm}] + 8.9\text{g}$ |

XXX – length in mm = A Maximum possible length = 6000mm

Note: Weight:
First constant = Cable weight per mm; Second Constant = Connector left and Connector right weight per pce

Assembly parts

| | |
|-----------------|--|
| Connector left | RPC-1.00 Plug |
| Connector right | RPC-1.00 Plug |
| Cable | RTK 047-F |
| Armour | silicone rubber jacket over glass fiber braid / stainless steel spiral |

Electrical data

| | |
|-----------------------------|------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 110 GHz |
| Return loss ¹ | ≥ 17 dB, DC to 50 GHz |
| | ≥ 14 dB, 50 to 110 GHz |
| Insertion loss ¹ | 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.

¹ Return Loss and Insertion Loss includes the measurement adaptor

Mechanical data

| | |
|---------------------|---------|
| Minimum bend radius | 20.0 mm |
|---------------------|---------|

Environmental data

| | |
|-------------------|--------------------|
| Temperature range | - 40 °C to +125 °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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|------------------|----------|------------------|----------|------|---------------------------|------------------|----------|
| Marion Striegler | 08.01.19 | Markus Hantschel | 14.12.22 | c00 | 22-2195 | Marion Striegler | 14.12.22 |

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Page
1 / 1