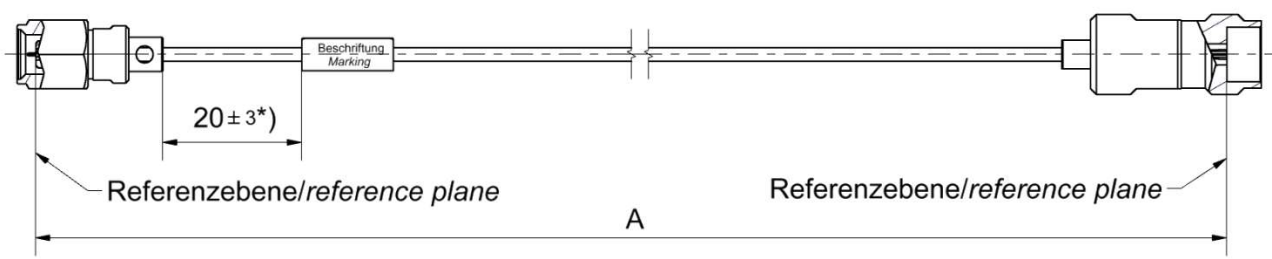


| | |
|-----------------------------|---|
| Technical Data Sheet | <h1 style="color: red; margin: 0;">Rosenberger</h1> |
|-----------------------------|---|

| | |
|--|---|
| Cable assembly RPC-1.00 Plug – RTK 047-F – RPC-1.85 Jack | <h2 style="margin: 0;">L70-384-XXX</h2> |
|--|---|



All dimensions are in mm; tolerances: ± 3mm for A ≤ 300 mm; ± 1% for A > 300 mm
 *) If length "A" ≤ 90 mm marking is mount centric ± 5mm

Available variants

| Type | max. Insertion loss | Marking | Weight (g) / pce |
|-------------|--|----------------------------|---|
| L70-384-XXX | $\leq 0.0020 * \sqrt{f[\text{GHz}]} + 0.00008 * f[\text{GHz}] \frac{\text{dB}}{\text{mm}}$ | ROSENBERGER L70-384-XXX | YYYY-WW sssss $0.0056 \frac{\text{g}}{\text{mm}} * A[\text{mm}] + 4.20\text{g}$ |

XXX – length in mm = A Maximum possible length = 6000mm
 WW – week YYYY – year sssss – serial no.

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-1.85 Jack |
| Cable | RTK 047 - F |
| Armour | none |

Electrical data

| | |
|-----------------------------|--|
| Impedance | 50 Ω |
| Frequency | DC to 70 GHz |
| Return loss ¹ | ≥ 17 dB, DC to 50 GHz ≥ 14 dB, 50 to 70 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 static | 7.0 mm |
| Minimum bend radius dynamic | 14.0 mm |

Environmental data

| | |
|-------------------|-------------------|
| Temperature range | - 40 °C to +85 °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.

| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|--|----------|------------|----------|------|---|----------------|---------------|
| Marcel Panicke | 25.10.19 | Ronny Mark | 11.12.19 | a00 | 19-s271 | Marcel Panicke | 11.12.19 |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de | | | | | Tel. : +49 8684 18-0 Email : info@rosenberger.de | | Page 1 / 1 |

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rosenberger:](#)

[L70-384-140](#)