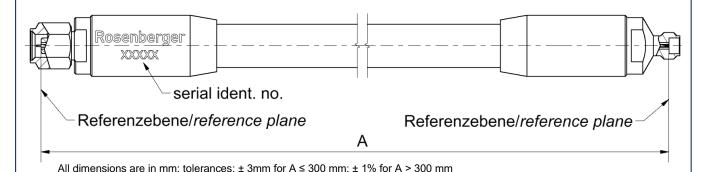
Technical Data Sheet

Rosenberger

Cable assembly

RPC-1.00 Plug - RTK 047-F - RPC-1.00 Jack

L70-311-XXX



Available variants

 Type
 max. Insertion loss
 Weight (g) / pce

 L70-311-XXX
 $\leq (0.0020 * \sqrt{f[GHz]} + 0.00008 * f[GHz]) \frac{dB}{mm}$ $0.070 \frac{g}{mm} * A[mm] + 8.75g$

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 Jack
Cable RTK 047-F

Armour silicone rubber jacket over glass fiber braid / stainless steel spiral

Electrical data

Impedance 50Ω

Frequency DC to 110 GHz

Return loss¹ \geq 17 dB, DC to 50 GHz \geq 14 dB, 50 to 110 GHz Insertion loss¹ 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.

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
Markus Müller	11.02.19	Markus Hantschel	10.01.23	d00	22-2195	Marion Striegler	10.01.23

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¹ Return Loss and Insertion Loss includes the measurement adaptor