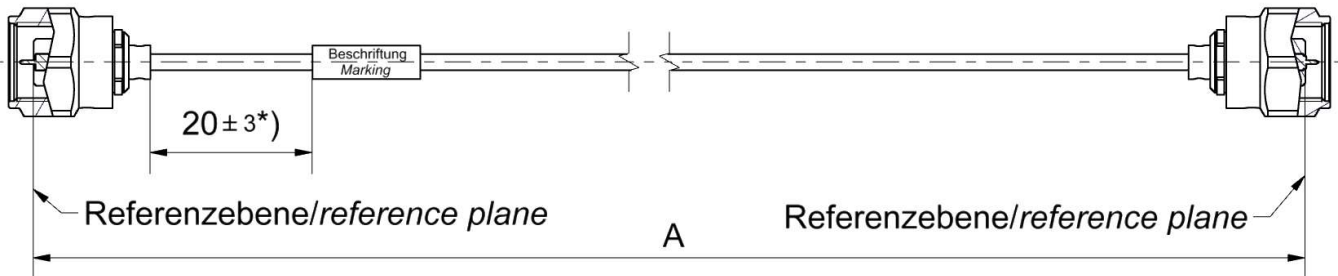


# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-1.35 Plug – UT-047-TP – RPC-1.35 Plug

## L70-324-XXX



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
L70-324-XXX	$\leq 0.0022 * \sqrt{f[\text{GHz}]} \frac{\text{dB}}{\text{mm}}$	ROSENBERGER YYY-YY L70-324-XXX	$0.0057 \frac{\text{g}}{\text{mm}} * A[\text{mm}] + 4.4\text{g}$

XXX – length in mm = A      Maximum possible length = 2000mm  
YY – week      YYYY – year

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

### Assembly parts

Connector left	RPC-1.35 Plug
Connector right	RPC-1.35 Plug
Cable	UT-047-TP
Armour	none

### Electrical data

Impedance	50 Ω
Frequency	DC to 90 GHz, typical up to 109 GHz
Return loss <sup>1</sup>	≥ 17 dB, DC to 26.5 GHz ≥ 14 dB, 26.5 to 50 GHz ≥ 12 dB, 50 to 90 GHz, typical up to 109 GHz
Insertion loss <sup>1</sup>	see table available variants

<sup>1</sup> Return Loss and Insertion Loss includes the measurement adaptor

### Mechanical data

Minimum bend radius:	
Single	20.0 mm
Mating cycles	≤ 50
Maximum torque	1.65 Nm
Recommended torque	0.90 Nm

### 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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Marion Striegler	15.12.17	Ronny Mark	04.11.19	d00	19-2041	Marion Striegler	04.11.19

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