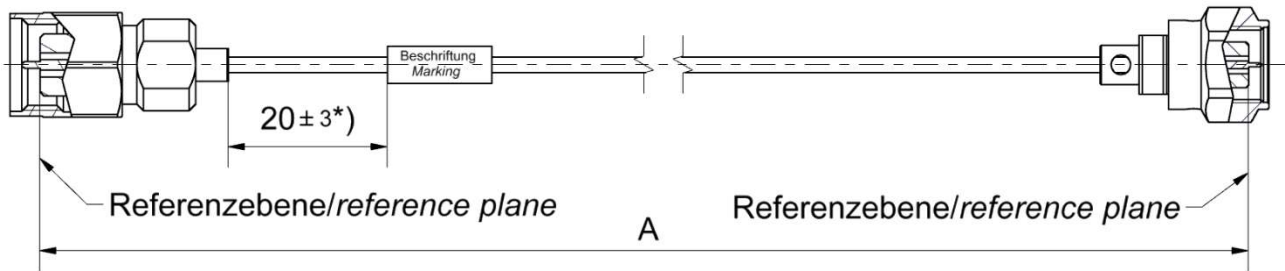


# Technical Data Sheet

# Rosenberger

**Cable assembly**  
RPC-1.85 Plug – RTK 047-F – RPC-1.35 Plug

## L70-346-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
L70-346-XXX	$\leq 0.0020 * \sqrt{f[\text{GHz}]} + 0.00008 * f[\text{GHz}] \frac{\text{dB}}{\text{mm}}$	ROSENBERGER L70-346-XXX	0.0056 $\frac{\text{g}}{\text{mm}}$ * A[mm] + 5.95g

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-1.85 Plug
Connector right	RPC-1.35 Plug
Cable	RTK 047-F
Armour	none

### Electrical data

Impedance	50 Ω
Frequency	DC to 70 GHz
Return loss <sup>1</sup>	≥ 15 dB, DC to 50 GHz
	≥ 14 dB, 50 to 70 GHz
Insertion loss <sup>1</sup>	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.

<sup>1</sup> 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	18.01.19	Ronny Mark	04.11.19	b00	19-2041	Marion Striegler	04.11.19

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