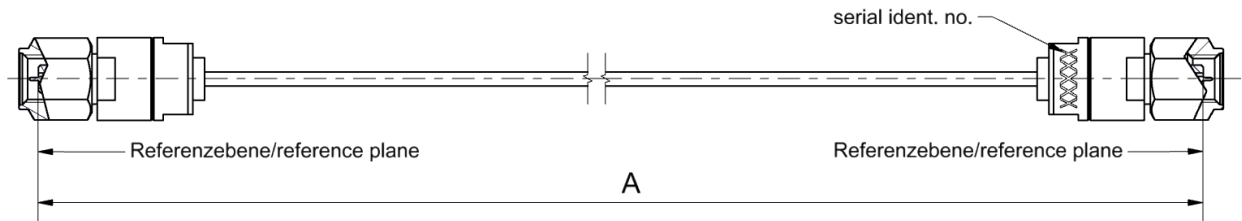


# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-1.00 Plug / Plug – RTK 055

## L70-286-XXX



All dimensions are in mm; tolerances:  $\pm 3\text{mm}$  for  $A \leq 300\text{ mm}$ ;  $\pm 1\%$  for  $A > 300\text{ mm}$

### Available variants

Type	max. Insertion loss	Weight (g) / pce
L70-286-XXX	$\leq 0.0018 * \sqrt{f[\text{GHz}]} \text{ dB/mm}$	$0.0049 \text{ g/mm} * A \text{ mm} + 6.4 \text{ g}$

XXX – length in mm = A      Maximum possible length = 250mm

Note:      Weight:  
First constant = Cable- and Armour- 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 055
Armour	none

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 110 GHz
Return loss	$\geq 17 \text{ dB}$ , DC to 50 GHz $\geq 14 \text{ dB}$ , 50 to 110 GHz
Insertion loss	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 static	3.2 mm
Minimum bend radius dynamic	25.4 mm

### Environmental data

Operating temperature range <sup>1</sup>	+20 °C to +26 °C
Rated temperature range of use <sup>2</sup>	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C
RoHS	compliant

<sup>1</sup>Temperature range over which these specifications are valid.

<sup>2</sup>This range is underneath and above the operating temperature range, within the Cable assembly is fully functional and could be used without damage

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
Martin Moder	10.06.15	Ronny Mark	22.02.17	a00	17-0197	Marcel Panicke	22.02.17

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