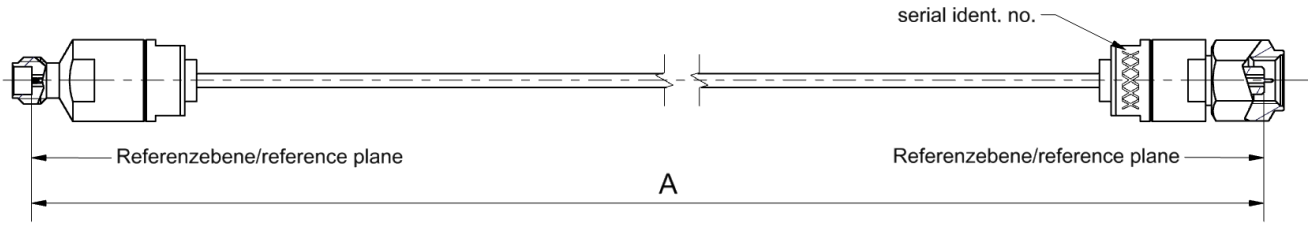
Technical Data Sheet

Rosenberger

Cable assembly
RPC-1.00 Jack / Plug – RTK 055

L70-287-XXX



All dimensions are in mm; tolerances: ± 3mm for A ≤ 300 mm; ± 1% for A > 300 mm

Available variants

Type	max. Insertion loss	Weight (g) / pce
L70-287-XXX	≤ 0.0018 * $\sqrt{f[GHz]}$ dB/mm	0.0049 g/mm * A mm + 6.2 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 jack
Connector right	RPC-1.00 plug
Cable	RTK 055
Armour	none

Electrical data

Impedance	50 Ω
Frequency	DC to 110 GHz
Return loss	≥ 17 dB, DC to 50 GHz
	≥ 14 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[1]	+20 °C to +26 °C
Rated temperature range of use[2]	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C
RoHS	compliant

[1] *Temperature range over which these specifications are valid.*
[2] *This range is underneath and above the operating temperature range, within the Cable assembly is fully functional and could be used without damage*

Draft	Date	Approved	Date
Martin Moder	10.06.15	Ronny Mark	22.02.17

Rev.	Engineering change number	Name	Date
a00	17-0197	Marcel Panicke	22.02.17

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