| **Cable assembly**
RPC-1.00 Plug – RTK 047-F – RPC-1.00 Plug | **L70-286-XXX** |
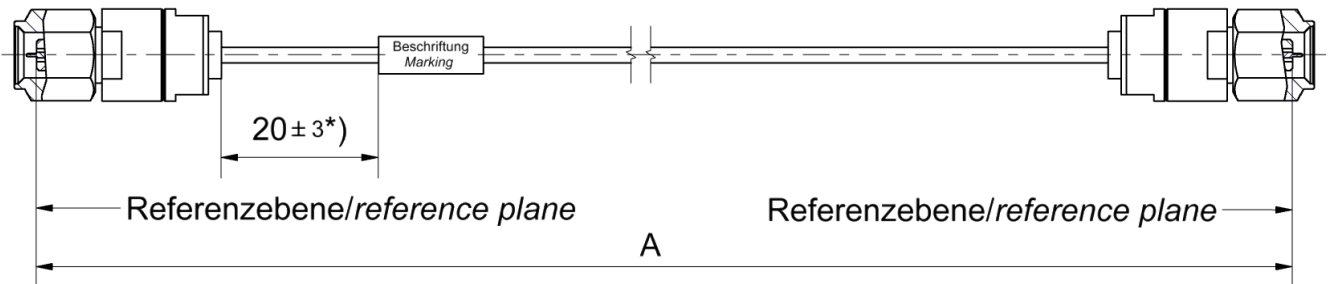
All dimensions are in mm; tolerances: ± 3mm for A ≤ 300 mm; ± 1% for A > 300 mm
*) If length "A" ≤ 90 mm marking is mount centric ± 5mm

Available variants

Type	max. Insertion loss	Marking	Weight (g) / pce
L70-286-XXX	$\leq (0.0020 * \sqrt{\text{f[GHz]}} + 0.00008 * \text{f[GHz]}) \frac{dB}{mm}$	ROSENBERGER YYYY-WW L70-286-XXX sssss	$0.0056 \frac{g}{mm} * A[mm] + 6.40g$

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-1.00 Plug
Connector right	RPC-1.00 Plug
Cable	RTK 047-F
Armour	none

Electrical data

Impedance	50 Ω
Frequency	DC to 110 GHz
Return loss[1]	≥ 17 dB, DC to 50 GHz
	≥ 14 dB, 50 to 110 GHz
Insertion loss[1]	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.

[1] *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 +125 °C
RoHS	compliant

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Martin Moder	10.06.15	Ronny Mark	14.12.22	d00	22-2195	Marion Striegler	14.12.22

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