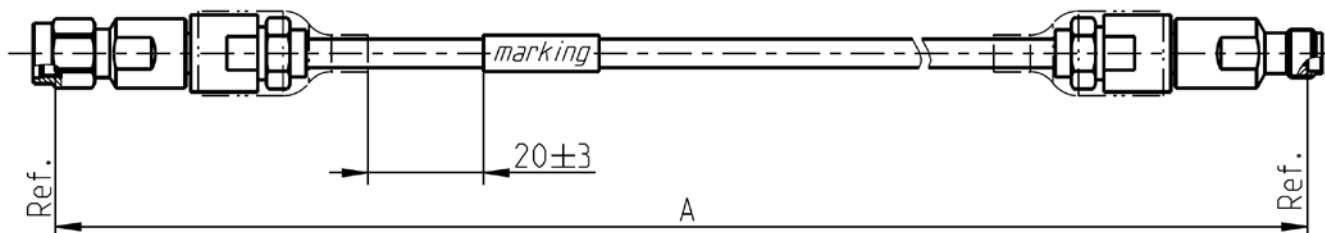


Technical Data Sheet

Rosenberger

Cable assembly
RPC-2.92 Plug / RPC-2.92 Jack – RTK 106

LU1-033-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 at 40 GHz	Marking	Weight (g) / pce
LU1-033-XXX	$\leq 0.00285\text{ dB/mm} * A\text{ mm} + 0.6\text{ dB}$	ROSENBERGER YYYY-WW LU1-033-XXX FAC-RRRRRRR ssss	$0.0361\text{ g/mm} * A\text{ mm} + 27\text{ g}$

XXX – length in mm = A Standard lengths are 500 / 1000 / 1500 / 2000mm
WW – week YYYY – year ssss – serial no. FAC – Factory Code RRRRRRR – lot nr.

Note: max. Insertion Loss:
First constant = Cable attenuation in dB / mm; Second Constant = Connector left and Connector right + needed Adaptor

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

Assembly parts

Connector left	RPC-2.92 plug	02S121-2U1S3
Connector right	RPC-2.92 jack	02K121-2U1S3
Cable	RTK 106	

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss ¹	$\geq 17\text{ dB}$, DC to 40 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. Measurement adaptors used are mentioned in the commentary field.

¹ Return Loss and Insertion Loss includes the measurement adaptor

Mechanical data

Minimum bend radius:	
Single	6.35 mm
Multiple	38.4 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
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