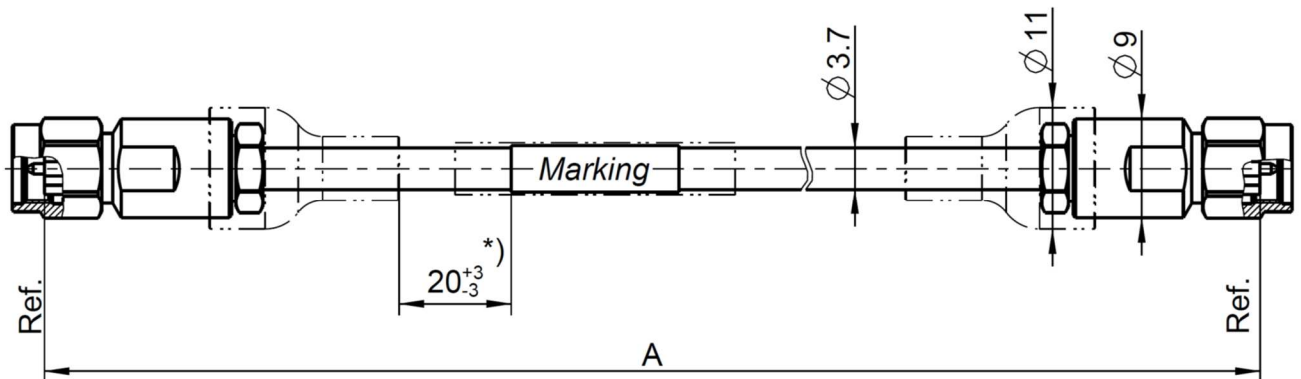


Technical Data Sheet

Rosenberger


Cable assembly
RPC-2.92 plug – RTK 106 – RPC-2.92 plug

LU1-500-XXX



All dimensions are in mm; tolerances: ± 3 mm for $A \leq 300$ mm; $\pm 1\%$ for $A > 300$ mm
*) If length "A" < 150 mm marking is mount centric ± 5 mm

Available variants

Type	Insertion loss at 40 GHz	Marking	Weight (g) / pce
LU1-500-XXX	$\leq 0.00285 \text{ dB/mm} * A \text{ mm} + 0.9 \text{ dB}$	ROSENBERGER ssss LU1-500-XXX FAC-RRRRRRR 	$0.0361 \text{ g/mm} * A \text{ mm} + 16 \text{ g}$

XXX – length in mm = A
ssss – serial no. FAC – Factory Code RRRRRRR – lot no. Barcode = includes factory code, lot no. and serial no.

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	02S129-2U1S3
Connector right	RPC-2.92 plug	02S129-2U1S3
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) and the care and handling instruction are included with the cable assembly. Measurement adaptors used are mentioned in the commentary field.

¹ Return Loss and Insertion Loss includes the measurement adaptor

Technical Data Sheet

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Cable assembly
RPC-2.92 plug – RTK 106 – RPC-2.92 plug

LU1-500-XXX

Mechanical data

Minimum bend radius:
Single 20 mm
Multiple 40 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
Martin Moder	14.03.19	Herbert Babinger	28.04.21	101	21-0004	A.Youmsi	28.04.21

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de	Tel. : +49 8684 18-0 Email : info@rosenberger.de	Page 2 / 2
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