

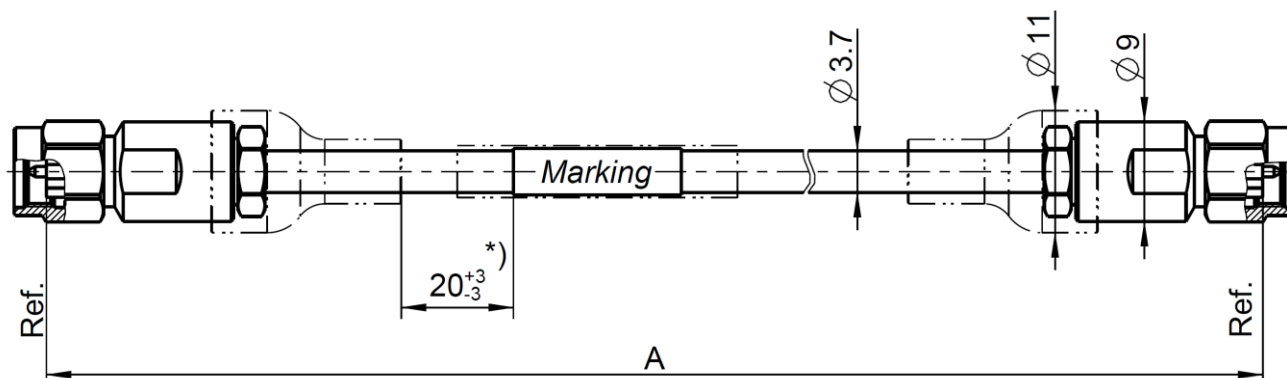
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RF_35/09.14/6.2

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: $\pm 3\text{ mm}$ for $A \leq 300\text{ mm}$; $\pm 1\%$ for $A > 300\text{ mm}$

*) If length "A" < 150 mm marking is mount centric $\pm 5\text{ mm}$

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 (TBD)
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

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Cable assembly RPC-2.92 plug – RTK 106 – RPC-2.92 plug				LU1-500-XXX			
Mechanical data Minimum bend radius: Single20 mm Multiple40 mm Environmental data Temperature range-40°C to +85°C RoHScompliant							
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