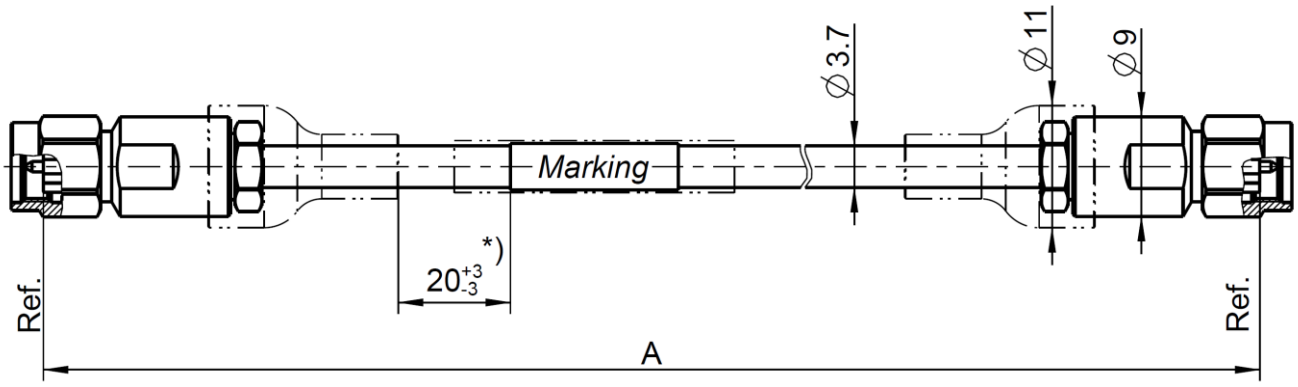
Technical Data Sheet

Rosenberger

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

LU1-500-XXX



All dimensions are in mm; tolerances: ± 3mm for A ≤ 300 mm; ± 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	≤ 0.00285 dB/mm * A mm + 0.9 dB	ROSENBERGER ssss LU1-500-XXX FAC-RRRRRRR [barcode]	0.0361 g/mm * A mm + 16 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]	≥ 17 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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Mechanical data

Minimum bend radius:	
Single	20 mm
Multiple	40 mm

Environmental data

Temperature range	-40°C to +85°C
RoHS	compliant

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