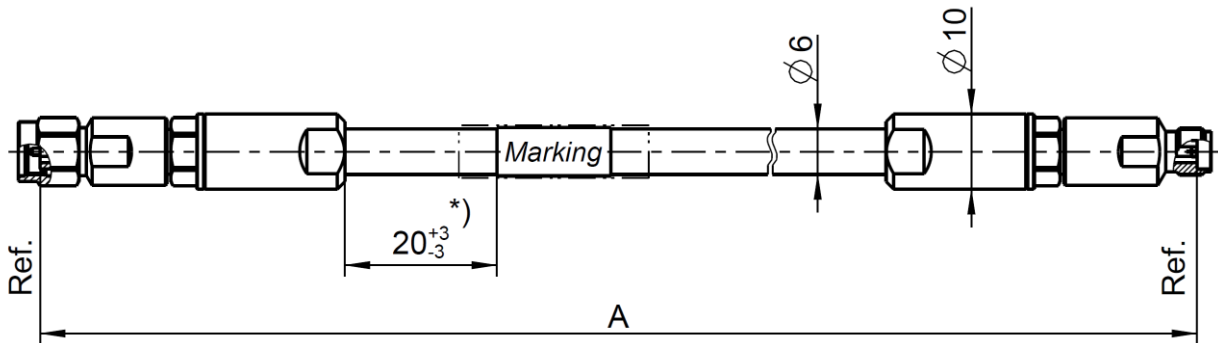


Technical Data Sheet

Rosenberger


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

LU1-503-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
LU1-503-XXX	$\leq 0.00285 \text{ dB/mm} * A \text{ mm} + 0.6 \text{ dB}$	ROSENBERGER ssss LU1-503-XXX FAC-RRRRRRR 	$0,096 \text{ g/mm} * A \text{ mm} + 27 \text{ g}$

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 jack	02K129-2U1S3
Cable	RTK 106	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	02S129-2U1/43
Tension sleeve	Stainless steel	02S129-2U1/44

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

Technical Data Sheet

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Cable assembly
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LU1-503-XXX

Mechanical data

Minimum bend radius:
Multiple 40 mm

Environmental data

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

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Martin Moder	14/03/19	Herbert Babinger	29/05/19	100	19-v355	Andreas Plötz	20/05/19

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