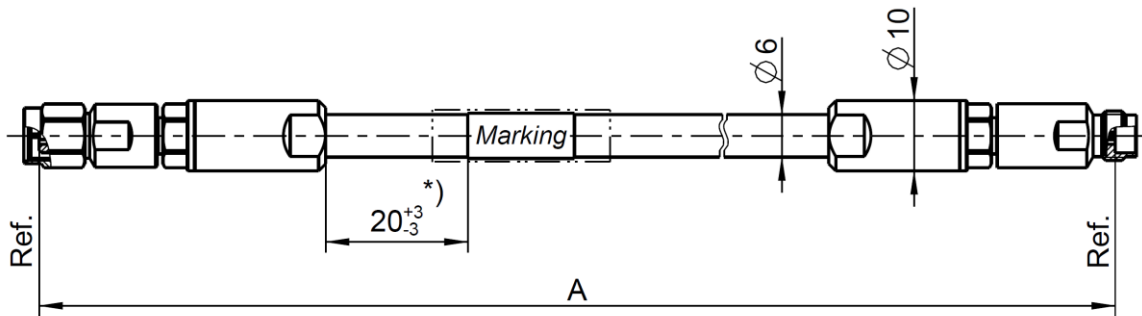


Technical Data Sheet

Rosenberger


Cable assembly
RPC-2.40 plug – RTK 125 – RPC-2.40 jack - Armour

LU8-503-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 50 GHz	Marking	Weight (g) / pce
LU8-503-XXX	$\leq 0.00397\text{ dB/mm} * A\text{ mm} + 0.9\text{ dB}$	ROSENBERGER ssss LU8-503-XXX FAC-RRRRRRR 	$0.087\text{ g/mm} * A\text{ mm} + 28\text{ g}$

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-2.40 plug	09S129-2U8S3
Connector right	RPC-2.40 jack	09K129-2U8S3
Cable	RTK 125	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	09S129-2U8/43
Tension sleeve	Stainless steel	02S129-2U1/44

Electrical data

Impedance	50 Ω
Frequency	DC to 50 GHz
Return loss ¹	$\geq 16.5\text{ dB}$, DC to 50 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

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Cable assembly
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LU8-503-XXX

Mechanical data

Minimum bend radius:
Multiple 32 mm

Environmental data

Temperature range -55°C to +125°C
RoHS compliant

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For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Martin Moder	20.05.19	C_Schmidinger	22.01.25	b00	25-0160	M_Rahberger	22.01.25

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RF_35/09_14/6.2

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