


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 50 GHz	Marking	Weight (g) / pce
LU8-501-XXX	$\leq 0.00397 \text{ dB/mm} * A \text{ mm} + 0.9 \text{ dB}$	ROSENBERGER ssss LU8-501-XXX FAC-RRRRRRR 	$0.027 \text{ g/mm} * A \text{ mm} + 15 \text{ g}$

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	

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

Technical Data Sheet

Rosenberger

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

LU8-501-XXX

Mechanical data

Minimum bend radius:
Multiple 32 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	20.05.19	H. Babinger	18.09.19	100	19-v502	A. Youmsi	18.09.19

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