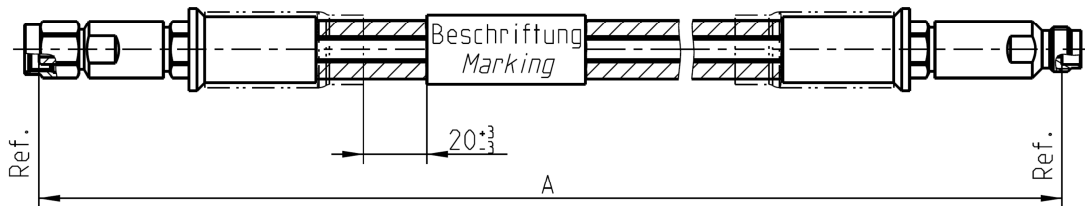


# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-2.40 Plug / RPC-2.40 Jack– RTK 125 Cable

## LU8-101-XXX



All dimensions are in mm; tolerances:  $\pm 3$  mm for  $A \leq 300$  mm;  $\pm 1\%$  for  $A > 300$  mm

### Available variants

Type	max. Insertion loss at 50 GHz	Marking	Weight (g) / pce
LU8-101-XXX	$\leq 0.00397 \text{ dB/mm} * A \text{ mm} + 0.90 \text{ dB}$	ROSENBERGER YYYY-WW LU8-101-XXX FAC-RRRRRRR ssss	$0,174 \text{ g/mm} * A \text{ mm} + 29 \text{ g}$

XXX – length in mm = A

WW – week

YYYY – year

ssss – serial no.

FAC – Factory Code

RRRRRRR – lot nr.

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	09S128-2U8S3
Connector right	RPC-2.40 jack	09K128-2U8S3
Cable	RTK 125	
Armour	T1 armour Outer Diameter 9.3mm (Polyurethane jacket over braid / stainless steel spiral)	

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 50 GHz
Return loss <sup>1</sup>	$\geq 16.5 \text{ dB}$ , DC to 50 GHz
Insertion loss <sup>1</sup>	see table available variants

Individual testing and documentation:

Measurement plot with all 4 S-Parameters (S11; S22; S21; S12) is included with the cable assembly and on the backside the care and handling instruction is printed. Measurement adaptors used are mentioned in the commentary field.

<sup>1</sup> Return Loss and Insertion Loss includes the measurement adaptor

### Mechanical data

Minimum bend radius:	
Single	12.7 mm
Multiple	16 mm

### Environmental data

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

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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