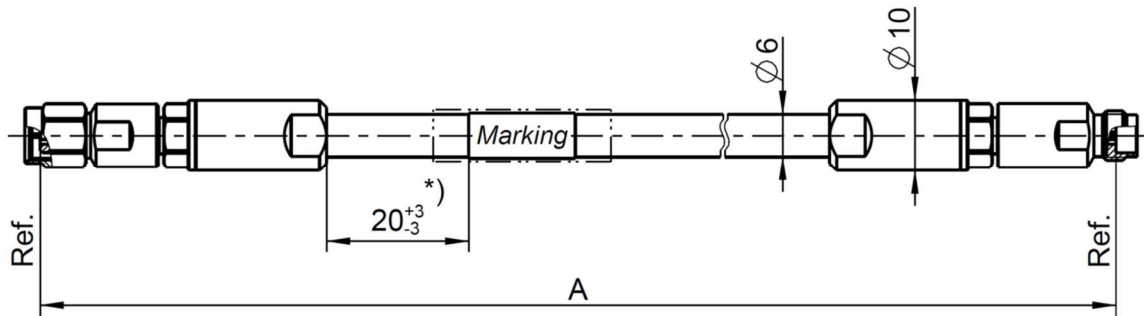


# Technical Data Sheet

# Rosenberger

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


## LU8-503-XXX



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

\*) If length "A" < 150 mm marking is mount centric  $\pm 5$  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 $\Omega$
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) and the care and handling instruction are included with the cable assembly. Measurement adaptors used are mentioned in the commentary field.

<sup>1</sup> 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 - Armour

## LU8-503-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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