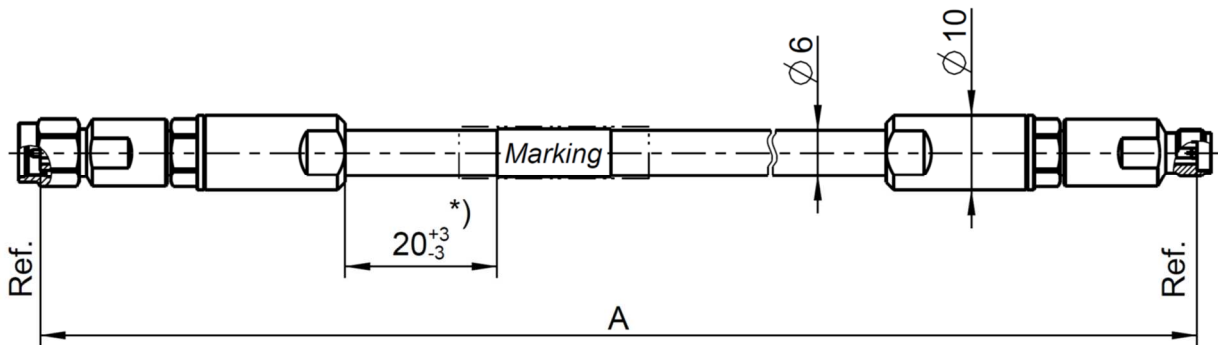



Cable assembly  
RPC-2.92 plug – RTK 106 – RPC-2.92 jack - Armour

**LU1-503-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 40 GHz	Marking	Weight (g) / pce
LU1-503-XXX	$\leq 0.00285\text{ dB/mm} * A\text{ mm} + 0.6\text{ dB}$	ROSENBERGER 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 $\Omega$
Frequency	DC to 40 GHz
Return loss <sup>1</sup>	$\geq 17\text{ dB}$ , DC to 40 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-2.92 plug – RTK 106 – RPC-2.92 jack - Armour

## 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	28.04.21	101	21-0004	A.Youmsi	28.04.21

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