


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 18 GHz	Marking	Weight (g) / pce
LU7-501-XXX	$\leq 0.00164\text{ dB/mm} * A\text{ mm} + 0.4\text{ dB}$	ROSENBERGER ssss LU7-501-XXX FAC-RRRRRRR 	$0.063\text{ g/mm} * A\text{ mm} + 73\text{ g}$

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-N plug	05S129-2U7S3
Connector right	RPC-N jack	05K129-2U7S3
Cable	RTK 162	

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 18 GHz
Return loss <sup>1</sup>	$\geq 19\text{ dB}$ , DC to 18 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-N plug – RTK 162 – RPC-N jack

## LU7-501-XXX

### Mechanical data

Minimum bend radius:  
Multiple 53 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
M. Moder	28.03.19	H. Babinger	26.09.22	a00	22-s195	T. Börgerding	26.09.22

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Page  
2 / 2

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