



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	max. Insertion loss at 18 GHz	Marking	Weight (g) / pce
LU7-266-XXX	$\leq 0.00164 \text{ dB/mm} * A \text{ mm} + 0.3 \text{ dB}$	ROSENBERGER YYY-YY-YY LU7-266-XXX FAC-RRRRRRR ssss	$0.2692 \text{ g/mm} * A \text{ mm} + 100 \text{ g}$

XXX – length in mm = A  
 WW – week YYY-YY – 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-N Plug	05S122-2U7S3
Connector right	RPC-N Jack	05K122-2U7S3
Cable	RTK 162	
Armour	Polyurethane jacket over braid / stainless steel spirall	

**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) 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

# Technical Data Sheet

# Rosenberger

## Cable assembly

RPC-N Plug / RPC-N Jack – RTK 161 Cable – T1 armour

## LU7-266-XXX

### Mechanical data

Minimum bend radius: 25.4 mm  
Crush resistance > 80 N/mm

### Environmental data

Temperature range -40°C to +80°C  
RoHS compliant

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Reiner	13.02.17	Herbert Babinger	13.02.17	c00	17-0243	M.Ruf	13.02.17

  

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