



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 18 GHz	Marking	Weight (g) / pce
LA2-105-XXX	$\leq 0.00066 \text{ dB/mm} * A \text{ mm} + 0.5 \text{ dB}$	ROSENBERGER YYYY-WW LA2-105-XXX FAC-RRRRRRR ssss	$0.435 \text{ g/mm} * A \text{ mm} + 111 \text{ g}$

XXX – length in mm = A

Standard lengths are 1000, 3000, 5000 and 10000 mm

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-N plug	05S122-2A2S3
Connector right	RPC-N jack	05K122-2A2S3
Cable	RTK 081	
Armour	T1 - Polyurethane jacket over braid / stainless steel spiral	

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 18 GHz
Return loss <sup>1</sup>	$\geq 17 \text{ dB}$ , 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 / Jack – RTK 081 Cable – T1 Armour

## LA2-105-XXX

### Mechanical data

Minimum bend radius: 38.10 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
Martin Moder	18.12.14	Florian Reiner	30.01.17	b00	16-1783	A. Youmsi M.	30.01.17

  

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