



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 26.5 GHz	Marking	Weight (g) / pce
LU7-153-XXX	$\leq 0.00203 \text{ dB/mm} * A \text{ mm} + 0.40 \text{ dB}$	ROSENBERGER YYYW LU7-153-XXX FAC-RRRRRRR ssss	$0.0656 \text{ g/mm} * A \text{ mm} + 22.5 \text{ g}$

XXX – length in mm = A      Standard lengths: 500, 1000, 1500, 2000mm  
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-3.50 plug	03S121-2U7S3
Connector right	RPC-3.50 jack	03K121-2U7S3
Cable	RTK 162	

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 26.5 GHz
Return loss <sup>1</sup>	$\geq 19 \text{ dB}$ , DC to 26.5 GHz
Insertion loss <sup>1</sup>	see table available variants
RF-leakage	$\geq 100 \text{ dB}$ up to 1 GHz

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

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RF\_35/09;14/6.2

# Technical Data Sheet

# Rosenberger

Cable assembly - Standardportfolio  
RPC-3.50 Plug / RPC-3.50 Jack– RTK 162 Cable

## LU7-153-XXX

### Mechanical data

Minimum bend radius:

Single 9.65 mm  
Multiple 50.8 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	05.11.18	Herbert Babinger	13.11.18	h00	18-s396	A. Youmsi	13.11.18

  

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