



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	max. Insertion loss at 26.5 GHz	Marking	Weight (g) / pce
LU7-308-XXX	$\leq 0.00203\text{ dB/mm} * A\text{ mm} + 0.40\text{ dB}$	ROSENBERGER YYY-YY LU7-308-XXX FAC-RRRRRRR ssss	$0.925\text{ g/mm} * A\text{ mm} + 31.2\text{ g}$

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	03S122-2U7S3
Connector right	RPC-3.50 jack	03K122-2U7S3
Cable	RTK 162	
Armour	Polyurethane jacket over braid / stainless steel spiral	

**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

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

## LU7-308-XXX

### Mechanical data

Minimum bend radius:  
Single 25.5 mm  
Multiple 50 mm

### Environmental data

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

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Martin Moder	25/04/18	Florian Reiner	04/05/18	b00	18-s170	Walter Schmied	02/05/18

  

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