

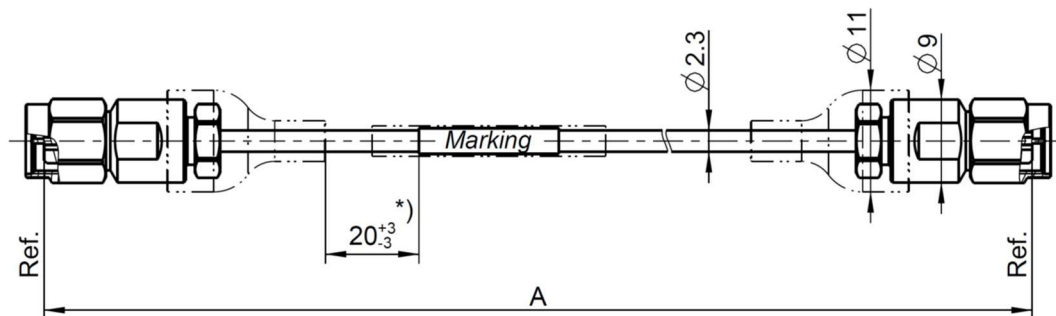
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## Technical Data Sheet

# Rosenberger

**Cable assembly**  
RPC-1.85 plug – RTK 092-70 – RPC-1.85 plug


## LU5-500-XXX



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 70 GHz	Marking	Weight (g) / pce
LU5-500-XXX	$\leq 0.00639\text{ dB/mm} * A\text{ mm} + 0.9\text{ dB}$	ROSENBERGER LU5-500-XXX FAC-RRRRRRR 	$0.164\text{ g/mm} * A\text{ mm} + 13.7\text{ g}$

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-1.85 plug	08S129-2U5S3
Connector right	RPC-1.85 plug	08S129-2U5S3
Cable	RTK 092-70	

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 70 GHz
Return loss <sup>1</sup>	$\geq 14\text{ dB}$ , DC to 70 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

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Technical Data Sheet				Rosenberger			
Cable assembly RPC-1.85 plug – RTK 092-70 – RPC-1.85 plug				LU5-500-XXX			
<div>Mechanical data</div> <div>Minimum bend radius: Multiple32 mm</div> <div>Environmental data</div> <div>Temperature range-40°C to +85°C RoHScompliant</div>							
<p>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.</p>							
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