



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



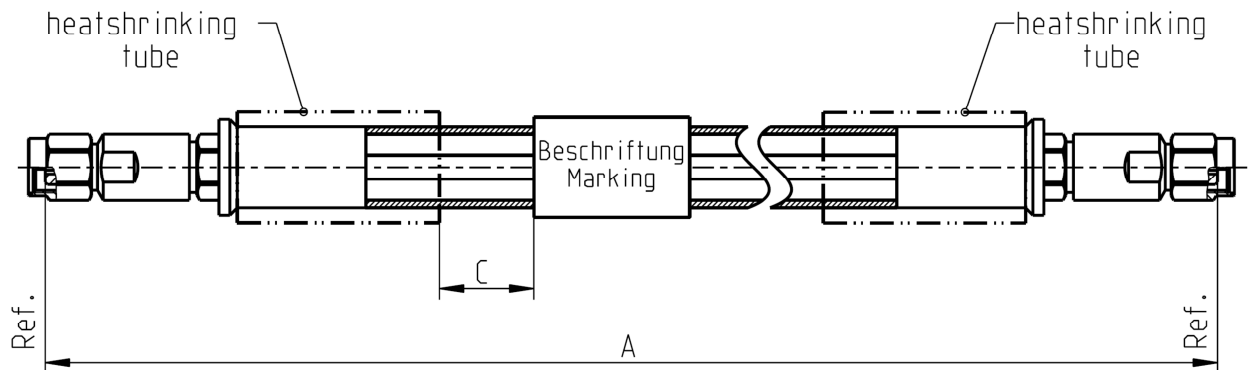
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All dimensions are in mm; tolerances: ± 3mm for A ≤ 300 mm; ± 1% for A > 300 mm

**Available variants**

Type	max. Insertion loss at 70 GHz	Marking	Weight (g) / pce
LU5-103-XXX	$\leq 0.00639 \text{ dB/mm} * A \text{ mm} + 0.90 \text{ dB}$	ROSENBERGER YYYW LU5-103-XXX FAC-RRRRRRR ssss	$0.1641 \text{ g/mm} * A \text{ mm} + 29 \text{ g}$

XXX – length in mm = A  
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-1.85 plug	08S128-2U5S3
Connector right	RPC-1.85 plug	08S128-2U5S3
Cable	RTK 092-70	
Armour	T1 armour - outer diameter 9.3mm (Polyurethane jacket over braid / stainless steel spiral)	

**Electrical data**

Impedance	50 Ω
Frequency	DC to 70 GHz
Return loss <sup>1</sup>	≥ 14 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) 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-1.85 Plug / Plug – RTK 092-70 – T1 Armour

## LU5-103-XXX

### Mechanical data

Minimum bend radius:  
Single 12.7 mm  
Multiple 38.1 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	08.02.12	Herbert Babinger	07.05.15	c00	15-0565	A. Youmsi Mou	07.05.15

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