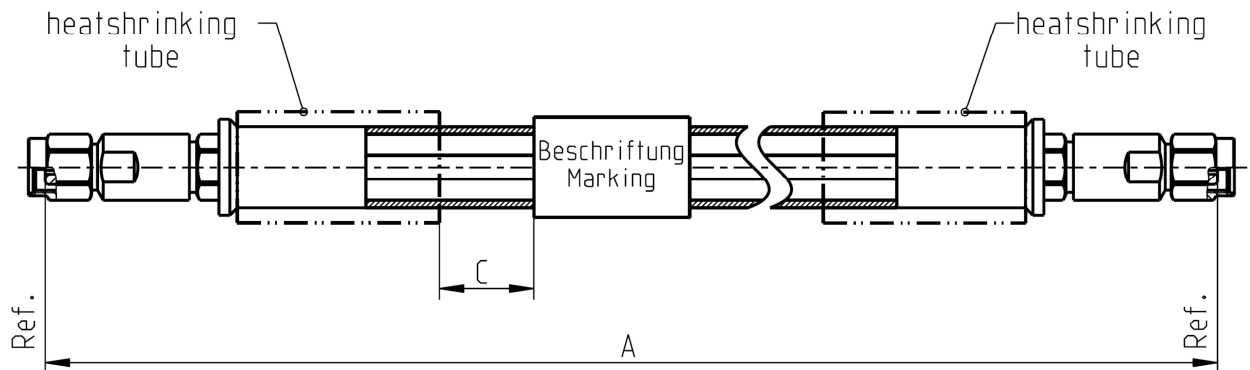




All dimensions are in mm; tolerances: $\pm 3\text{mm}$ for $A \leq 300\text{mm}$; $\pm 1\%$ for $A > 300\text{mm}$

Available variants

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

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 ¹	$\geq 14\text{ dB}$, DC to 70 GHz
Insertion loss ¹	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.

¹ 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 RPC-1.85 Plug / Plug – RTK 092-70 – T1 Armour				LU5-103-XXX			
Mechanical data Minimum bend radius: Single12.7 mm Multiple38.1 mm Environmental data Temperature range-40°C to +80°C RoHScompliant							
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
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