



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 YYY- 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 ¹	≥ 14 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

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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

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

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de	Tel. : +49 8684 18-0 Email : info@rosenberger.de	Page 2 / 2
--	--	---------------

RF_35/09;14/6.2