



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

Available variants

Type	max. Insertion loss at 26.5 GHz	Weight (g) / pce
LU7-055-XXX	$\leq 0.00203 \text{ dB/mm} * A \text{ mm} + 0.40 \text{ dB}$	$0.2456 \text{ g/mm} * A \text{ mm} + 190 \text{ g}$

XXX – length in mm = A
- Standard lengths are 600, 800 and 1000mm. The smallest possible length is 400mm. -

Assembly parts

Connector left	RPC-3.50 plug	03S123-2U7S3
Connector right	RPC-3.50 jack	03K123-2U7S3
Cable	RTK 162	
Armour	Metal tubing with fixed bending rate and protection braid	

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss	≥ 26 dB, DC to 4 GHz ≥ 20 dB, 4 GHz to 26.5 GHz
Insertion loss	see table available variants
Phase deviation:	
After 90° bending	≤ 1.0°, DC to 4 GHz ≤ 3.0°, 4 GHz to 26.5 GHz
Straight after 3x90° bending	≤ 0.5°, DC to 4 GHz ≤ 1.5°, 4 GHz to 26.5 GHz
Amplitude stability	≤ 0.03 dB, DC to 4 GHz ≤ 0.05 dB, 4 GHz to 26.5 GHz
Return loss stability	≥ 48 dB, DC to 4 GHz ≥ 40 dB, 4 GHz to 26.5 GHz
Shielding Effectiveness	≥ 100 dB up to 1 GHz

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.

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

RF_35/09.14/6.2

Technical Data Sheet

Rosenberger

Cable assembly
RPC-3.50 PLUG – RTK 162 Cable – RPC-3.50 JACK

LU7-055-XXX

Mechanical data

Minimum bend radius: 60 mm

Environmental data

Temperature range -40°C to +85°C
RoHS compliant

Packing

Standard 1 pce in box

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	29.09.14	Herbert Babinger	07.10.14	f00	14-s342	Maik Knoll	07.10.14

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
--	--	---------------