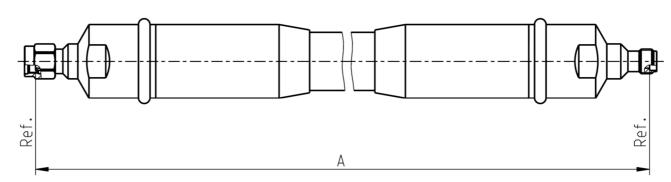
Technical Data Sheet

Rosenberger

Cable assembly RPC-3.50 Plug / Jack – RTK 162 - VA Armour

LU7-055-XXX



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

Available variants

Туре	Insertion loss at max. Frequency	Weight (g) / pce		
LU7-055-XXX	≤ 0.00203 dB/mm * A mm + 0.40 dB	0.2456 g/mm * A mm + 190 g		

XXX - length in mm = A

- Standard lengths are 600, 800 and 1000mm. The smallest possible length is 400mm. -

Note: max. Insertion Loss:

First constant = Cable attenuation in dB /mm; Second Constant = Connector left and Connector right +auxiliary Adaptor

Weight: First constant = Cable- and Armour- weight per mm; Second Constant = Connector left and Connector right weight per pce

Assembly parts

Connector left Connector right Cable Armour RPC-3.50 plug03S123-2U7S3RPC-3.50 jack03K123-2U7S3RTK 16203K123-2U7S3Metal tubing with fixed bending rate and protection braid

Electrical data

Impedance Frequency Return loss¹

Insertion loss¹

RF-leakage

 50Ω DC to 26.5 GHz ≥ 26 dB, DC to 4 GHz ≥ 20 dB, 4 GHz to 26.5 GHz see table "Available variants" ≥ 100 dB up to 1 GHz

¹ Return Loss and Insertion Loss includes the measurement adaptor

RF_35/09.14/6.2

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LU7-055-XXX

Stability data Insertion loss stability: After 90° bending	≤ 0.03 dB, DC to 4 GHz ≤ 0.05 dB, 4 GHz to 26.5 G
	\leq 1.0°, DC to 4 GHz \leq 3.0°, 4 GHz to 26.5 GHz
Straight after 3x90° bending	\leq 0.5°, DC to 4 GHz \leq 1.5°, 4 GHz to 26.5 GHz

 \leq 0.03 dB, DC to 4 GHz \leq 0.05 dB, 4 GHz to 26.5 GHz

Return loss stability: After 90° bending

 \geq 48 dB, DC to 4 GHz \geq 40 dB, 4 GHz to 26.5 GHz

Individual testing and documentation:

Stability data is tested according to the specification.

Measurement plot with all 4 S-Parameters (S11; S22; S21; S12) and the care and handling instruction are included with the cable assembly. Auxiliary adaptors used are mentioned in the commentary field.

Mechanical data	
Minimum bend radius:	60 mm
Environmental data	
Operating temperature range ²	+20 °C to +26 °C
Rated temperature range of use ³	0 °C to +50 °C
Storage temperature range	-40 °C to +85 °C
RoHS	compliant
 2 Temperature range over which these specification ar 3 This range is underneath and above the operating te and could be used without damage. 	e valid. mperature range, within the cable assembly is fully functional

Recommended accessories

Wooden case with foam inlay⁴

VA_CASE-001

4 Supports two assemblies, for length 600 mm available only.



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	Roland Neuhauser	14.01.20		g00	20-0086	Roland Neuhauser	14.01.20
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