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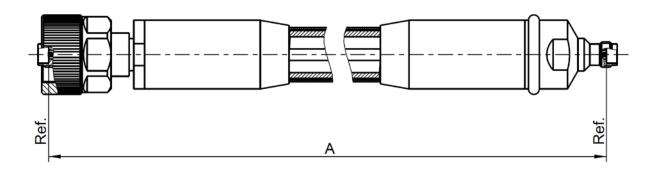
RF_35/09.14/6.2

Technical Data Sheet

Rosenberger

Cable assembly RPC-2.40 Jack / Jack - RTK 125 - VA Armour

LU8-006-XXX



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

Available variants

Type	max. Insertion loss at 50 GHz	Weight (g) / pce			
LU8-006-XXX	≤ 0.00397 dB/mm * A mm + 0.7 dB	0.206 g/mm * A mm + 153 g			

XXX - length in mm = A

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-2.40 ruggedized jack 09KR123-2U8S3 Connector right RPC-2.40 jack 09K123-2U8S3 Cable **RTK 125**

Armour Metal tubing with fixed bending rate and protection braid

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

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LU8-006-XXX

Electrical data

Impedance 50Ω

Frequency DC to 50 GHz

Return loss¹ \geq 26 dB, DC to 4 GHz \geq 17 dB, 4 GHz to 50 GHz

Insertion loss¹ see table available variants

Phase deviation:

After 90° bending ≤ 1.3°, DC to 4 GHz ≤ 7.0°, 4 GHz to 50 GHz

Straight after 3x90° bending ≤ 1.0°, DC to 4 GHz ≤ 4.5°, 4 GHz to 50 GHz

Amplitude stability \leq 0.03 dB, DC to 4 GHz \leq 0.08 dB, 4 GHz to 50 GHz

Return loss stability \geq 45 dB, DC to 4 GHz \geq 35 dB, 4 GHz to 50 GHz RF-leakage \geq 100 dB up to 1 GHz

Individual testing and documentation:

Phase deviation, Amplitude stability and Return Loss stability is testes according to the specification. 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.

Mechanical data

Minimum bend radius: 60 mm

Environmental data

Temperature range -40°C to +85°C 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.

F. Reiner 30.05.16 M. Moder 08.06.16 g00 16-0803 K. Mitterer 08	Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
	F. Reiner	30.05.16	M. Moder	08.06.16	g00	16-0803	K. Mitterer	08.06.16

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¹ Return Loss and Insertion Loss includes the measurement adaptor