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RF_35/09.14/6.2

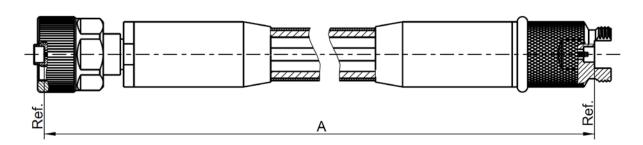
Technical Data Sheet

Rosenberger

Cable assembly

RPC-2.40 Jack / RPC-SL 40 GHz Jack - RTK 106 **VA Armour**

LU1-004-XXX



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

Available variants

varianto						
Туре	max. Insertion loss at 40 GHz	Weight (g) / pce				
LU1-004-XXX	≤ 0.00285 dB/mm * A mm + 0.6 dB	0.216 g/mm * A mm + 206 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

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-2.40 ruggedized jack RPC-SL 40 GHz jack

09KR123-2U1S3 P4K123-2U1S3

RTK 106

Metal tubing with fixed bending rate and protection braid

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LU1-004-XXX

Electrical data

Impedance 50Ω

Frequency DC to 40 GHz

Return loss¹ \geq 26 dB, DC to 4 GHz \geq 17 dB, 4 GHz to 40 GHz

Insertion loss¹ see table available variants

Phase deviation:

After 90° bending \leq 1.3°, DC to 4 GHz \leq 6.0°, 4 GHz to 40 GHz

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

 \leq 4.0°, 4 GHz to 40 GHz Amplitude stability \leq 0.03 dB, DC to 4 GHz

≥ 0.08 dB, 4 GHz to 40 GHz

Return loss stability ≥ 45 dB, DC to 4 GHz

RF-leakage ≥ 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.

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