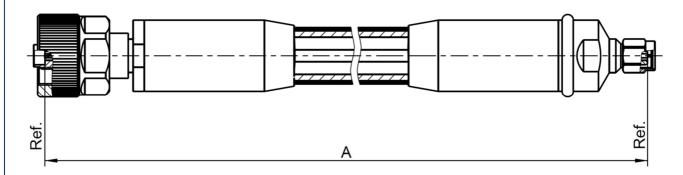
# RF 35/09.14/6.2

### **Technical Data Sheet**

### Rosenberger

### Cable assembly RPC-2.40 jack / plug – RTK 125– VA Armour

### LU8-005-XXX



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

#### Available variants

Type	Insertion loss at max. Frequency	Weight (g) / pce				
LU8-005-XXX	≤ 0.00397 dB/mm * A mm + 0.75 dB	0.206 g/mm * A mm + 150 g				

XXX - length in mm = A

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 RPC-2.40 ruggedized jack 09KR123-2U8S3
Connector right RPC-2.40 plug 09S123-2U8S3

Cable RTK 125

Armour Metal tubing with fixed bending rate and protection braid

#### Electrical data

Impedance 50  $\Omega$ 

Frequency DC to 50 GHz

Return loss<sup>1</sup>  $\geq$  26 dB, DC to 4 GHz

≥ 17 dB, 4 GHz to 50 GHz

Insertion loss<sup>1</sup> see table "Available variants"

RF-leakage ≥ 100 dB up to 1 GHz

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

<sup>&</sup>lt;sup>1</sup> Return Loss and Insertion Loss includes the measurement adaptor

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### **Technical Data Sheet**

### Rosenberger

## Cable assembly RPC-2.40 jack / plug – RTK 125– VA Armour

### LU8-005-XXX

### Stability data

Insertion loss stability:

After 90° bending ≤ 0.03 dB, DC to 4 GHz

 $\leq 0.08$  dB, 4 GHz to 50 GHz

≤ 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

Return loss stability:

After 90° bending  $\geq$  45 dB, DC to 4 GHz  $\geq$  35 dB, 4 GHz to 50 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<sup>2</sup> +20 °C to +26 °C
Rated temperature range of use<sup>3</sup> 0 °C to +50 °C
Storage temperature range -40 °C to +85 °C
RoHS compliant

- 2 Temperature range over which these specification are valid.
- 3 This range is underneath and above the operating temperature range, within the cable assembly is fully functional and could be used without damage.

### **Recommended accessories**

Wooden case with foam inlay4

VA\_CASE-001

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

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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	18.08.14	Roland Neuhauser	14.01.20	) h00		20-0086	Roland Neuhauser		14.01.20
Rosenberger Hochfrequenztechnik GmbH & Co. KG				Tel.	: +49 8684 18-0			Page	

Germany