Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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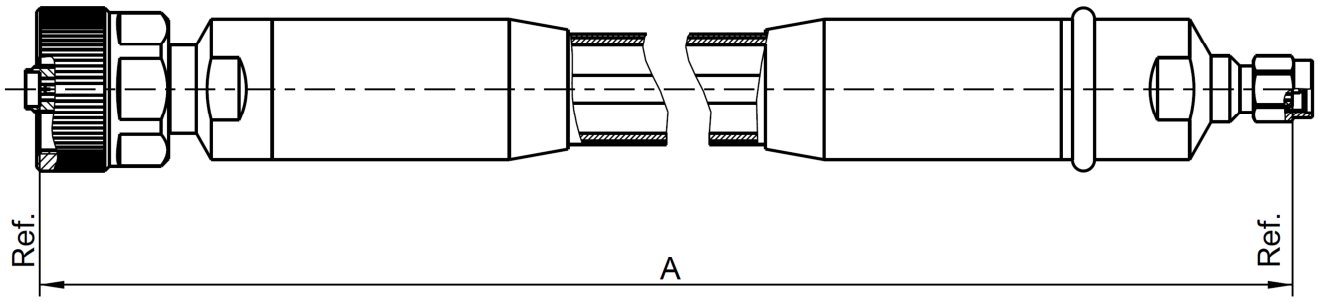
Technical Data Sheet	Rosenberger
Cable assembly RPC-2.92 jack / plug – RTK 106 – VA Armour	**LU1-005-XXX**



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

Available variants

Type	max. Insertion loss at 40 GHz	Weight (g) / pce
LU1-005-XXX	≤ 0.00285 dB/mm * A mm + 0.6 dB	0.216 g/mm * A mm + 206.4 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-2.92 ruggedized jack	02KR123-2U1S3
Connector right	RPC-2.92 plug	02S123-2U1S3
Cable	RTK 106	
Armour	Metal tubing with fixed bending rate and protection braid	

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Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss[1]	≥ 26 dB, DC to 4 GHz ≥ 17 dB, 4 GHz to 40 GHz
Insertion loss[1]	see table available variants
Phase deviation:	
After 90° bending	≤ 1.3°, DC to 4 GHz ≤ 6.0°, 4 GHz to 40 GHz
Straight after 3x90° bending	≤ 1.0 °, DC to 4 GHz ≤ 4.0°, 4 GHz to 40 GHz
Amplitude stability	≤ 0.03 dB, DC to 4 GHz ≤ 0.08 dB, 4 GHz to 40 GHz
Return loss stability	≥ 45 dB, DC to 4 GHz ≥ 35 dB, 4 GHz to 40 GHz
RF-leakage	≥ 100 dB up to 1 GHz

Individual testing and documentation:
Phase deviation, Amplitude stability and Return Loss stability is tested 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.

[1] Return Loss and Insertion Loss includes the measurement adaptor

Mechanical data

Minimum bend radius:	60 mm

Environmental data

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

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Moder	24.10.16	H. Babinger	10.11.16	g00	16-s332	S. Andorfer	10.11.16