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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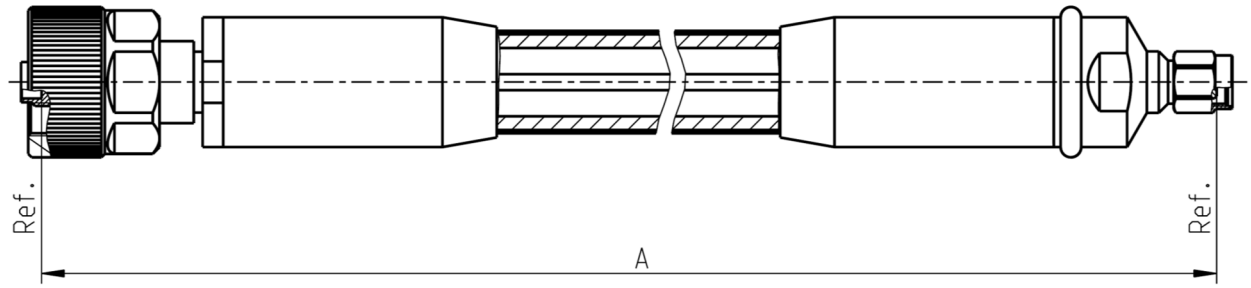
Technical Data Sheet

Rosenberger

Cable assembly
RPC-1.85 Jack / Plug – RTK 092-70 – VA Armour

LU5-107-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
LU5-107-XXX	≤ 0.00639 dB/mm * A mm + 0.90 dB	0,1641g/mm * A mm + 185,8 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	RPC-1.85 ruggedized jack	08KR123-2U5S3
Connector right	RPC-1.85 plug	08S123-2U5S3
Cable	RTK 092-70	
Armour	Metal tubing with fixed bending rate and protection braid	

Electrical data

Impedance	50 Ω
Frequency	DC to 70 GHz
Return loss[1]	≥ 26 dB, DC to 4 GHz
	≥ 22 dB, 4 GHz to 20 GHz
	≥ 15 dB, 20 GHz to 50 GHz
	≥ 14 dB, 50 GHz to 70 GHz
Insertion loss[1]	see table “Available variants”
RF-leakage	≥ 100 dB up to 1 GHz

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

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Stability data

Insertion loss stability:

After 90° bending	≤ 0.03 dB, DC to 4 GHz ≤ 0.10 dB, 4 GHz to 20 GHz ≤ 0.20 dB, 20 GHz to 50 GHz ≤ 0.30 dB, 50 GHz to 70 GHz
	≤ 1.0°, DC to 4 GHz ≤ 3.0°, 4 GHz to 20 GHz ≤ 7.0°, 20 GHz to 70 GHz
Straight after 3x90° bending	≤ 1.0°, DC to 4 GHz ≤ 2.0°, 4 GHz to 20 GHz ≤ 4.0°, 20 GHz to 70 GHz

Return loss stability:

After 90° bending	≥ 45 dB, DC to 20 GHz ≥ 35 dB, 20 GHz to 50 GHz ≥ 30 dB, 50 GHz to 70 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 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.

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