



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!



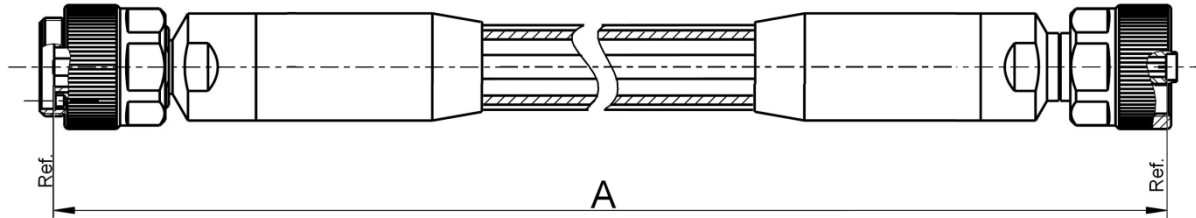
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All dimensions are in mm; tolerances: ± 3mm for A ≤ 300 mm; ± 1% for A > 300 mm

**Available variants**

Type	Insertion loss at max. Frequency	Weight (g) / pce
LU7-031-XXX	≤ 0.00164 dB/mm * A mm + 0.35 dB	0,25 g/mm * A mm + 131 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

**Documents**

Technical data sheet connector left	RPC-7	07P123-2U7S3
Technical data sheet connector right	RPC-3.50 ruggedized jack	03KR123-2U7S3
Technical data sheet cable	RTK 162	

Calibration of measuring equipment for electrical quantities - Characterisation of HF measuring cables VDI/VDE/DGQ/DKD 2622 Part 19

**Assembly parts**

Connector left	RPC-7	07P123-2U7S3
Connector right	RPC-3.50 ruggedized jack	03KR123-2U7S3
Cable	RTK 162	
Armour	Metal tubing with fixed bending rate and protection braid	

**Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss <sup>1</sup>	≥ 28 dB, DC to 4 GHz
	≥ 20 dB, 4 GHz to 18 GHz
Insertion loss <sup>1</sup>	see table “Available variants”
RF-leakage	≥ 100 dB up to 1 GHz

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

**Stability data**  
(acc. VDI/VDE/DGQ/DKD 2622 part 19)

Insertion loss stability:	
After 90° bending	≤ 0.03 dB, DC to 4 GHz ≤ 0.05 dB, 4 GHz to 18 GHz
	≤ 0.5°, DC to 4 GHz ≤ 2.0°, 4 GHz to 18 GHz
Straight after 3x90° bending	≤ 0.5°, DC to 4 GHz ≤ 1.5°, 4 GHz to 18 GHz
Return loss stability:	
After 90° bending	≥ 48 dB, DC to 4 GHz ≥ 40 dB, 4 GHz to 18 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

<sup>2</sup> Temperature range over which these specification are valid.

<sup>3</sup> This range is underneath and above the operating temperature range, within the cable assembly is fully functional and could be used without damage.

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.

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RF\_35/09;14/6.2

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