



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!



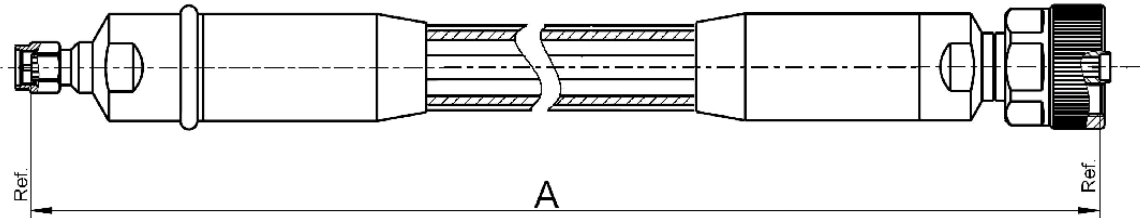
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All dimensions are in mm; tolerances: $\pm 3\text{mm}$ for $A \leq 300\text{ mm}$; $\pm 1\%$ for $A > 300\text{ mm}$

Available variants

Type	Insertion loss	Weight (g) / pce
LU7-039-XXX	$\leq 0.00203\text{ dB/mm} * A\text{ mm} + 0.4\text{ dB}$	$0.2456\text{ g/mm} * A\text{ mm} + 206\text{ g}$

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 +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-3.50 plug	03S123-2U7S3
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 26.5 GHz
Return loss ¹	$\geq 26\text{ dB}$, DC to 4 GHz $\geq 20\text{ dB}$, 4 GHz to 26.5 GHz
Insertion loss ¹	see table “Available variants”
RF-leakage	$\geq 100\text{ dB}$ up to 1 GHz

¹ Return Loss and Insertion Loss includes the measurement adaptor

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Cable assembly

RPC-3.50 Plug / Jack- RTK 162 - VA Armour

LU7-039-XXX

Stability data

Insertion loss stability:

After 90° bending ≤ 0.03 dB, DC to 4 GHz
 ≤ 0.05 dB, 4 GHz to 26.5 GHz
 $\leq 1.0^\circ$, DC to 4 GHz
 $\leq 3.0^\circ$, 4 GHz to 26.5 GHz

Straight after 3x90° bending $\leq 0.5^\circ$, DC to 4 GHz
 $\leq 1.5^\circ$, 4 GHz to 26.5 GHz

Return loss stability:

After 90° bending ≥ 48 dB, DC to 4 GHz
 ≥ 40 dB, 4 GHz to 26.5 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 range² +20 °C to +26 °C
 Rated temperature range of use³ 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.

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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