



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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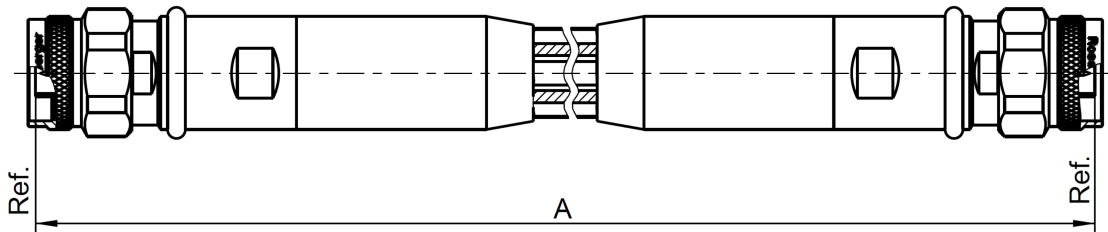
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Cable assembly  
 RPC-N 75Ω Plug / Plug – Sucoform 141-75-FEP  
 VA Armour

**L75-001-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
L75-001-XXX	≤ 0.0016 dB/mm * A mm + 0.30 dB	0.225 g/mm * A mm + 225 g

XXX – length in mm = A

- Standard lengths is 600mm. The smallest possible length is 500mm. -

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-N 75Ω Plug	P5S123-275S3
Connector right	RPC-N 75Ω Plug	P5S123-275S3
Cable	Sucoform 141-75-FEP	
Armour	Metal tubing with fixed bending rate and protection braid	

**Electrical data**

Impedance	75 Ω
Frequency	DC to 12 GHz
Return loss <sup>1</sup>	≥ 28 dB, DC to 3 GHz ≥ 26 dB, 3 GHz to 4 GHz ≥ 20 dB, 4 GHz to 12 GHz

Insertion loss<sup>1</sup> see table “Available variants”

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

# Technical Data Sheet

# Rosenberger

**Cable assembly**  
RPC-N 75Ω Plug / Plug – Sucoform 141-75-FEP  
VA Armour

## L75-001-XXX

### Stability data

Insertion loss stability:

After 90° bending  $\leq 0.02$  dB, DC to 4 GHz  
 $\leq 0.04$  dB, 4 GHz to 12 GHz

$\leq 2.0^\circ$ , DC to 4 GHz  
 $\leq 3.0^\circ$ , 4 GHz to 12 GHz

Straight after 3x90° bending  $\leq 1.5^\circ$ , DC to 4 GHz  
 $\leq 2.5^\circ$ , 4 GHz to 12 GHz

Return loss stability:

After 90° bending  $\geq 42$  dB, DC to 4 GHz  
 $\geq 35$  dB, 4 GHz to 12 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 +80 °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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Martin Moder	23.03.17	Martin Moder	11.12.17	c00	17-2055	M.Ruf	11.12.17
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