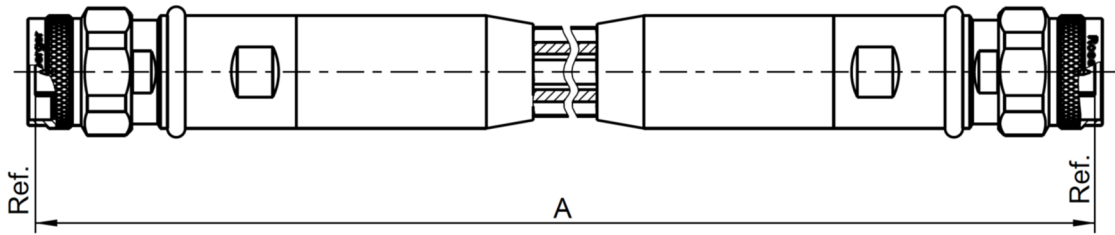


Cable assembly
RPC-N 75Ω Plug / Plug – Sucoform 141-75-FEP
VA Armour

L75-001-XXX



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 at max. Frequency	Weight (g) / pce
L75-001-XXX	$\leq 0.0016\text{ dB/mm} * A\text{ mm} + 0.30\text{ dB}$	$0.225\text{ g/mm} * A\text{ mm} + 225\text{ g}$

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 ¹	$\geq 28\text{ dB}$, DC to 3 GHz
	$\geq 26\text{ dB}$, 3 GHz to 4 GHz
	$\geq 20\text{ dB}$, 4 GHz to 12 GHz

Insertion loss¹ see table “Available variants”

¹ Return Loss and Insertion Loss includes the measurement adaptor

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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				≤ 0.02 dB, DC to 4 GHz			
				≤ 0.04 dB, 4 GHz to 12 GHz			
				≤ 2.0°, DC to 4 GHz			
				≤ 3.0°, 4 GHz to 12 GHz			
Straight after 3x90° bending				≤ 1.5°, DC to 4 GHz			
				≤ 2.5°, 4 GHz to 12 GHz			
Return loss stability:							
After 90° bending				≥ 42 dB, DC to 4 GHz			
				≥ 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 ²				+20 °C to +26 °C			
Rated temperature range of use ³				0 °C to +50 °C			
Storage temperature range				-40 °C to +80 °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.							
Recommended accessories							
Wooden case with foam inlay ⁴				VA_CASE-001			
⁴ Supports two assemblies, for length 600 mm available only.							
							
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	Roland Neuhauser	15.01.20	d00	20-0086	Roland Neuhauser	14.01.20
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel. : +49 8684 18-0 Email : info@rosenberger.de		Page 2 / 2