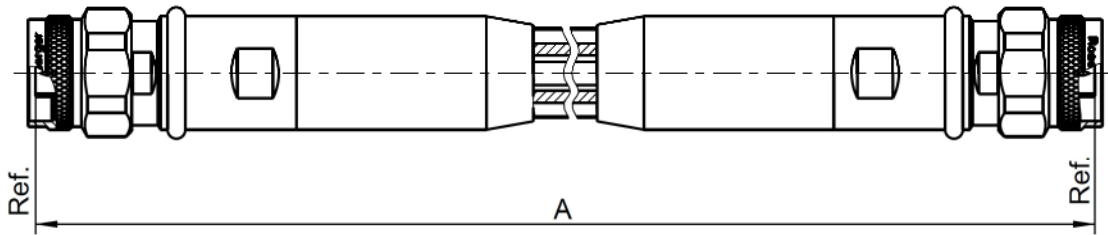


Cable assembly
RPC-N 75Ω Plug / Plug – Sucoform 141-75-FEP
VA Armour

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

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 $\leq 2.0^\circ$, DC to 4 GHz
 $\leq 3.0^\circ$, 4 GHz to 12 GHzStraight 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 ≥ 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 dataOperating temperature range² +20 °C to +26 °CRated temperature range of use³ 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.

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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