



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

**Contents and Technical datasheet**

Device	Part number	Quantity
Cable assembly RPC-N 75 Ω plug / RPC-N 75 Ω plug	L75-001-600	2

**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>	≤ 1.30 dB, DC to 12 GHz

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

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# Technical Data Sheet

# Rosenberger

TEST CABLE SET  
RPC-N 75Ω Plug / RPC-N 75Ω Plug

## VA75A-NM-NM-60

### 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
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