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

## Available variants

| Type | Insertion loss at max. Frequency | Weight (g)/pce |
| :---: | :---: | :---: |
| LU7-031-XXX | $\leq 0.00164 \mathrm{~dB} / \mathrm{mm}$ * $\mathrm{Amm}+0.35 \mathrm{~dB}$ | $0,25 \mathrm{~g} / \mathrm{mm}$ * $\mathrm{Amm}+230 \mathrm{~g}$ |

$X X X$ - length in $m m=A$
-Standard lengths are 600,800 and 1000 mm . The smallest possible length is 400 mm . -
Note: max. Insertion Loss:
First constant = Cable attenuation in $\mathrm{dB} / \mathrm{mm}$; 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

| Technical Data Sheet | ROSONO日 |
| :---: | :---: |
| Cable assembly <br> RPC-7 / RPC-3.50 jack - RTK 162 <br> VA Armour | LU7-031-XXX |

## Assembly parts

Connector left
Connector right
Cable
Armour

RPC-7
RPC-3.50 ruggedized jack RTK 162
Metal tubing with fixed bending rate and protection braid

07P123-2U7S3
03KR123-2U7S3

## Electrical data

Impedance
$50 \Omega$
DC to 18 GHz
$\geq 28 \mathrm{~dB}$, DC to 4 GHz
$\geq 20 \mathrm{~dB}, 4 \mathrm{GHz}$ to 18 GHz
see table "Available variants"
$\geq 100 \mathrm{~dB}$ up to 1 GHz

Frequency
Return loss ${ }^{1}$
Insertion loss ${ }^{1}$
RF-leakage
${ }^{1}$ Return Loss and Insertion Loss includes the measurement adaptor www.rosenberger.de

```
Tel. : +49 8684 18-0
Email : info@rosenberger.de
```


## Stability data

Insertion loss stability:
After $90^{\circ}$ bending

$\leq 0.03 \mathrm{~dB}$, DC to 4 GHz<br>$\leq 0.05 \mathrm{~dB}, 4 \mathrm{GHz}$ to 18 GHz<br>$\leq 0.5^{\circ}$, DC to 4 GHz<br>$\leq 2.0^{\circ}, 4 \mathrm{GHz}$ to 18 GHz<br>$\leq 0.5^{\circ}$, DC to 4 GHz<br>$\leq 1.5^{\circ}, 4 \mathrm{GHz}$ to 18 GHz

Straight after $3 \times 90^{\circ}$ bending

Return loss stability:
After $90^{\circ}$ bending

$\geq 48 \mathrm{~dB}$, DC to 4 GHz<br>$\geq 40 \mathrm{~dB}, 4 \mathrm{GHz}$ to 18 GHz

## Individual testing and <br> 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 ${ }^{2}$ $+20^{\circ} \mathrm{C}$ to $+26^{\circ} \mathrm{C}$
Rated temperature range of use ${ }^{3}$
$0^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$
Storage temperature range
RoHS
$-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
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 | 13.02.17 | Roland Neuhauser | 14.01.20 | k00 | 20-0086 | Roland Neuhause | 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 <br> $2 / 2$ |

