



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 |
|-------------|--|---|
| LU7-043-XXX | $\leq 0.00203\text{ dB/mm} * A\text{ mm} + 0.40\text{ dB}$ | $0.2456\text{ g/mm} * A\text{ mm} + 206\text{ g}$ |

XXX – length in mm = A

- Standard lengths are 600, 800 and 1000mm. The smallest possible length is 400mm. -

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-3.50 jack | 03K123-2U7S3 |
| Connector right | RPC-3.50 ruggedized jack | 03KR123-2U7S3 |
| Cable | RTK 162 | |
| Armour | Metal tubing with fixed bending rate and protection braid | |

Electrical data

| | |
|-----------------------------|---|
| Impedance | 50 Ω |
| Frequency | DC to 26.5 GHz |
| Return loss ¹ | $\geq 26\text{ dB}$, DC to 4 GHz |
| | $\geq 20\text{ dB}$, 4 GHz to 26.5 GHz |
| Insertion loss ¹ | see table “Available variants” |
| RF-leakage | $\geq 100\text{ dB}$ up to 1 GHz |

¹ Return Loss and Insertion Loss includes the measurement adaptor

Cable assembly

RPC-3.50 jack / jack – RTK 162 VA Armour

LU7-043-XXX

Stability data

Insertion loss stability:

After 90° bending ≤ 0.03 dB, DC to 4 GHz
 ≤ 0.05 dB, 4 GHz to 26.5 GHz

$\leq 1.0^\circ$, DC to 4 GHz
 $\leq 3.0^\circ$, 4 GHz to 26.5 GHz

Straight after 3x90° bending $\leq 0.5^\circ$, DC to 4 GHz
 $\leq 1.5^\circ$, 4 GHz to 26.5 GHz

Return loss stability:

After 90° bending ≥ 48 dB, DC to 4 GHz
 ≥ 40 dB, 4 GHz to 26.5 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 range² +20 °C to +26 °C
 Rated temperature range of use³ 0 °C to +50 °C
 Storage temperature range -40 °C to +85 °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.

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