



All dimensions are in mm; tolerances according to ISO 2768 c-H

**Available variants**

Type	Length "A" (mm)	Insertion loss ≤ (dB) at 18 GHz	Weight (g) / pce
LU7-042-600	600	1.30	315
LU7-042-625	625	1.30	321
LU7-042-750	750	1.50	353
LU7-042-800	800	1.60	366
LU7-042-900	900	1.80	392
LU7-042-1000	1000	1.95	418
LU7-042-1200	1200	2.30	469
LU7-042-1500	1500	2.80	547
LU7-042-3000	3000	5.25	934
LU7-042-12000	12000	24.70	3258

**Documents**

Technical data sheet connector  
Technical data sheet cable

RPC-N 50 Ω plug  
RTK 162

05S123-2U7S3

**CABLE ASSEMBLY**  
**RPC-N 50 Ω PLUG / RPC-N 50 Ω PLUG**

**LU7-042-XXX**

**Assembly parts**

Connector left	RPC-N 50 Ω plug	05S123-2U7S3
Connector right	RPC-N 50 Ω plug	05S123-2U7S3
Cable	RTK 162	
Armour	Metal tubing with fixed bending rate and protection braid	

**Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 28 dB, DC to 4 GHz ≥ 20 dB, 4 GHz to 18 GHz
Insertion loss	see table available variants
Phase deviation:	
After 90° bending	≤ 0.5°, DC to 4 GHz ≤ 2.0°, 4 GHz to 18 GHz
Straight after 3x90° bending	≤ 0.5°, DC to 4 GHz ≤ 1.5°, 4 GHz to 18 GHz
Amplitude stability	≤ 0.03 dB, DC to 4 GHz ≤ 0.05 dB, 4 GHz to 18 GHz
Return loss stability	≥ 48 dB, DC to 4 GHz ≥ 40 dB, 4 GHz to 18 GHz
RF-leakage	≥ 90 dB up to 1 GHz

**Mechanical data**

Minimum bend radius	60 mm
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**Environmental data**

Temperature range	-40°C to +85°C
RoHS	compliant

**Packing**

Standard	1 pce in box
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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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