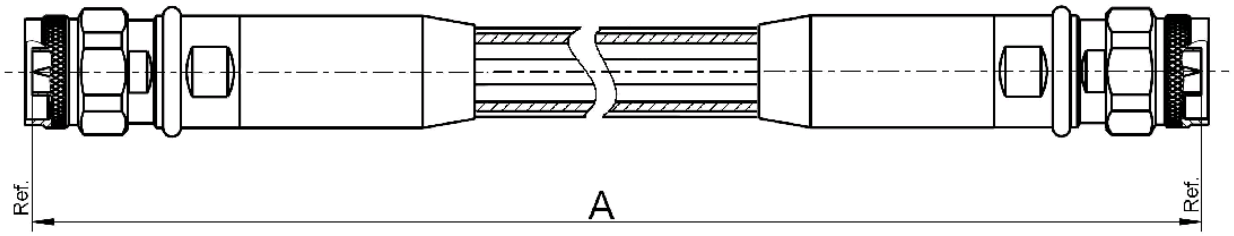
Technical Data Sheet	Rosenberger
Cable assembly RPC-N 50 Ω plug / plug – RTK 162 – VA Armour	**LU7-042-XXX**



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

Available variants

Type	max. Insertion loss at 18 GHz	Marking	Weight (g) / pce
LU7-042-XXX	≤ 0.00164 dB/mm * A mm + 0.5 dB	ROSENBERGER YYYY-WW LU7-042-XXX FAC-RRRRRRR ssss	0,2456 g/mm * A mm + 181 g

XXX – length in mm = A
WW – week *YYYY – year* *ssss – serial no.* *FAC – Factory Code* *RRRRRRR – lot nr.*

Note: *max. Insertion Loss:*
First constant = Cable attenuation in dB /mm; Second Constant = Connector left and Connector right +needed 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 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	

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss[1]	≥ 28 dB, DC to 4 GHz
	≥ 20 dB, 4 GHz to 18 GHz
Insertion loss[1]	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

Individual testing and documentation:
Phase deviation, Amplitude stability and Return Loss stability is tested according to the specification. Measurement plot with all 4 S-Parameters (S11; S22; S21; S12) is included with the cable assembly and on the backside the care and handling instruction is printed. Measurement adaptors used are mentioned in the commentary field.

[1] *Return Loss and Insertion Loss includes the measurement adaptor*

Mechanical data

Minimum bend radius:	60 mm

Environmental data

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

Draft	Date	Approved	Date
Martin Moder	09.03.15	M. Scherbauer	16.03.15

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