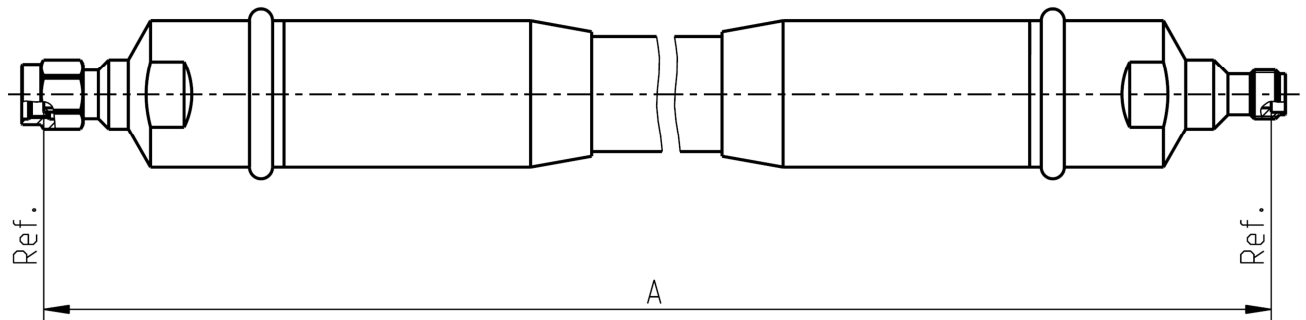




All dimensions are in mm; tolerances: $\pm 3\text{mm}$ for $A \leq 300\text{ mm}$; $\pm 1\%$ for $A > 300\text{ mm}$

Available variants

Type	max. Insertion loss at 26.5 GHz	Weight (g) / pce
LU7-055-XXX	$\leq 0.00203\text{ dB/mm} \cdot A\text{ mm} + 0.40\text{ dB}$	$0.2456\text{ g/mm} \cdot A\text{ mm} + 190\text{ g}$

XXX – length in mm = A

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

Assembly parts

Connector left	RPC-3.50 plug	03S123-2U7S3
Connector right	RPC-3.50 jack	03K123-2U7S3
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	$\geq 26\text{ dB}$, DC to 4 GHz $\geq 20\text{ dB}$, 4 GHz to 26.5 GHz
Insertion loss	see table available variants
Phase deviation:	
After 90° bending	$\leq 1.0^\circ$, 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
Amplitude stability	$\leq 0.03\text{ dB}$, DC to 4 GHz $\leq 0.05\text{ dB}$, 4 GHz to 26.5 GHz
Return loss stability	$\geq 48\text{ dB}$, DC to 4 GHz $\geq 40\text{ dB}$, 4 GHz to 26.5 GHz
Shielding Effectiveness	$\geq 100\text{ dB}$ up to 1 GHz

Individual testing and documentation:

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.

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Technical Data Sheet				Rosenberger			
Cable assembly RPC-3.50 PLUG – RTK 162 Cable – RPC-3.50 JACK				LU7-055-XXX			
Mechanical data							
Minimum bend radius:				60 mm			
Environmental data							
Temperature range				-40°C to +85°C			
RoHS				compliant			
Packing							
Standard				1 pce in box			