


All dimensions are in mm; tolerances: ± 3 mm for $A \leq 300$ mm; $\pm 1\%$ for $A > 300$ mm
 *) If length "A" < 150 mm marking is mount centric ± 5 mm

Available variants

Type	Insertion loss at 18 GHz	Marking	Weight (g) / pce
LU7-503-XXX	$\leq 0.00164 \text{ dB/mm} * A \text{ mm} + 0.4 \text{ dB}$	ROSENBERGER ssss LU7-503-XXX FAC-RRRRRRR 	$0,139 \text{ g/mm} * A \text{ mm} + 85\text{g}$

XXX – length in mm = A
 ssss – serial no. FAC – Factory Code RRRRRRR – lot no. Barcode = includes factory code, lot no. and serial no.

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 plug	05S129-2U7S3
Connector right	RPC-N jack	05K129-2U7S3
Cable	RTK 162	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	05S129-2U7/41
Tension sleeve	Stainless steel	05S129-2U7/42

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss ¹	$\geq 19 \text{ dB}$, DC to 18 GHz
Insertion loss ¹	see table available variants

Individual testing and documentation:
 Measurement plot with all 4 S-Parameters (S11; S22; S21; S12) and the care and handling instruction are included with the cable assembly. Measurement adaptors used are mentioned in the commentary field.

¹ Return Loss and Insertion Loss includes the measurement adaptor

Technical Data Sheet

Rosenberger

Cable assembly
RPC-N plug – RTK 162 – RPC-N jack - Armour

LU7-503-XXX

Mechanical data

Minimum bend radius:
Multiple 53 mm

Environmental data

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

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Moder	28.03.19	H. Babinger	26.09.22	a00	22-s196	T. Börgerding	26.09.22

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