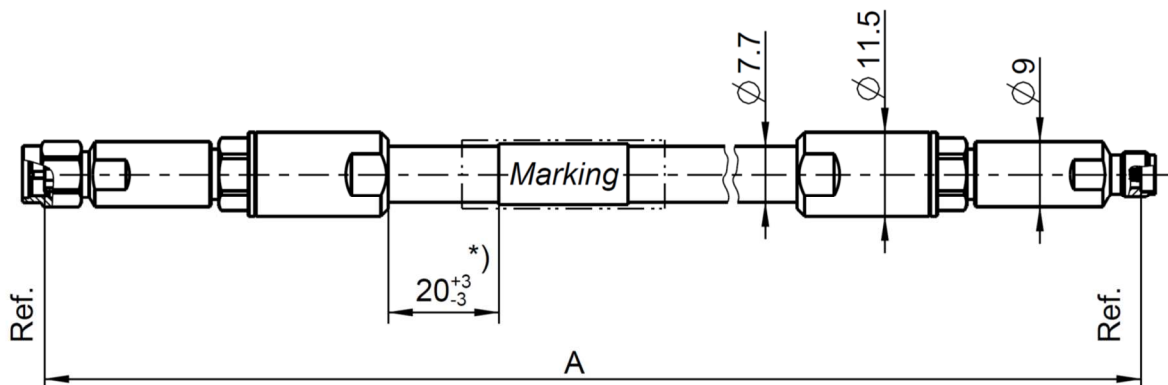


Technical Data Sheet

Rosenberger

Cable assembly
RPC-3.50 plug – RTK 162 – RPC-3.50 jack - Armour

LU7-509-XXX



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

Available variants

Type	Insertion loss at 26.5 GHz	Marking	Weight (g) / pce
LU7-509-XXX	$\leq 0.00203\text{ dB/mm} * A\text{ mm} + 0.4\text{ dB}$	ROSENBERGER ssss LU7-509-XXX FAC-RRRRRRR 	$0.139\text{ g/mm} * A\text{ mm} + 28\text{ g}$

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-3.50 plug	03S129-2U7S3
Connector right	RPC-3.50 jack	03K129-2U7S3
Cable	RTK 162	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	05S129-2U7/41
Tension sleeve	Stainless steel	05S129-2U7/41

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss ¹	$\geq 19\text{ dB}$, DC to 26.5 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-3.50 plug – RTK 162 – RPC-3.50 jack - Armour				LU7-509-XXX			
Mechanical data Minimum bend radius: Multiple53 mm Environmental data Temperature range-40°C to +85°C RoHScompliant							
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
M. Moder	05.04.19	H. Babinger	22.04.21	a00	21-s091	A. Youmsi	22.04.21
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