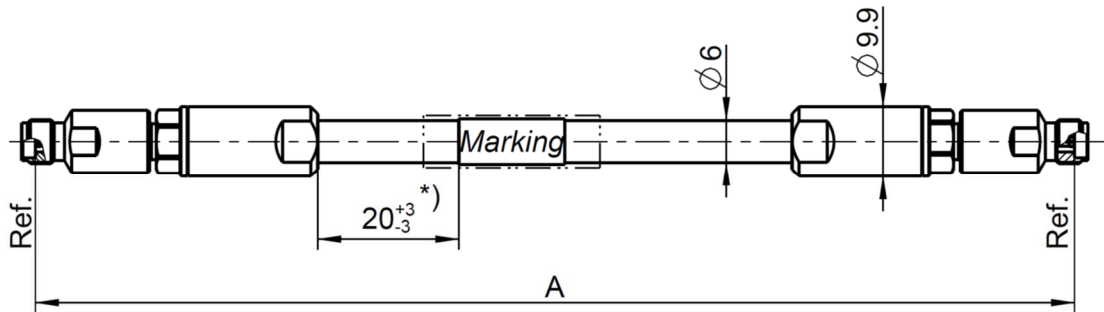


Technical Data Sheet

Rosenberger


Cable assembly
RPC-2.92 jack – RTK 125 – RPC-2.92 jack - Armour

LU8-509-XXX



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 43.5 GHz	Marking	Weight (g) / pce
LU8-509-XXX	≤ 0.00365 dB/mm * A mm + 0.9 dB	ROSENBERGER LU8-509-XXX FAC-RRRRRRR 	0.084 g/mm * A mm + 26.5 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-2.92 jack	02K129-2U8S3
Connector right	RPC-2.92 jack	02K129-2U8S3
Cable	RTK 125	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	09S129-2U8/43
Tension sleeve	Stainless steel	02S129-2U1/44

Electrical data

Impedance	50 Ω
Frequency	DC to 43.5 GHz
Return loss ¹	≥ 16 dB, DC to 43.5 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

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Cable assembly

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LU8-509-XXX

Mechanical data

Minimum bend radius:
Multiple 32 mm

Environmental data

Temperature range -40°C to +125°C
RoHS compliant

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
S. Andorfer	06.05.20	H. Babinger	17.08.21	200	21-v321	A. Youmsi	17.08.21

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RF_35/09;14/6.2