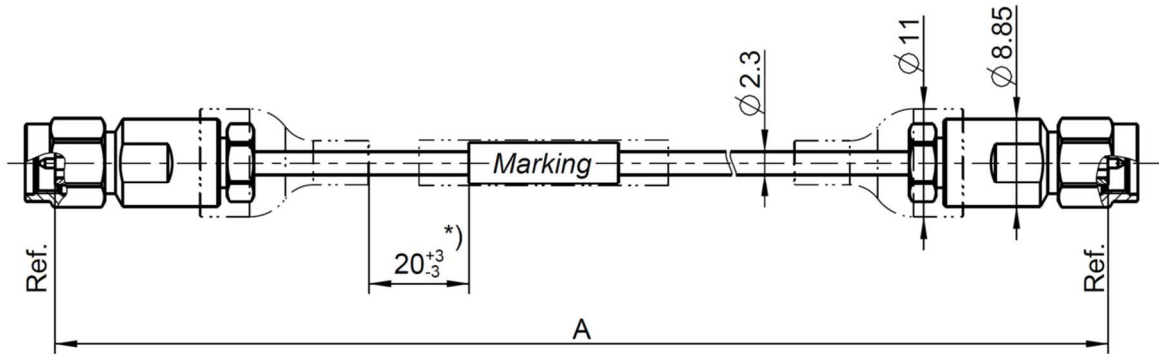


Technical Data Sheet

Rosenberger


Cable assembly
RPC-2.92 plug – RTK 092-70 – RPC-2.92 plug

LU5-506-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
LU5-506-XXX	$\leq 0.00487 \text{ dB/mm} * A \text{ mm} + 0.9 \text{ dB}$	ROSENBERGER ssss LU5-506-XXX FAC-RRRRRRR 	$0.016 \text{ g/mm} * A \text{ mm} + 15.4 \text{ g}$

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-2.92 plug	02S129-2U5S3
Connector right	RPC-2.92 plug	02S129-2U5S3
Cable	RTK 092-70	

Electrical data

Impedance	50 Ω
Frequency	DC to 43.5 GHz
Return loss ¹	$\geq 17 \text{ dB}$, 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

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LU5-506-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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