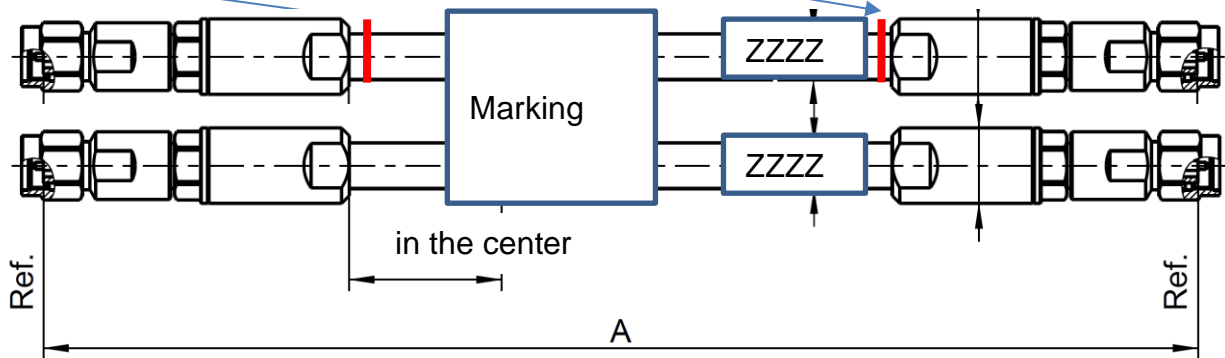


Cable assembly
RPC-2.92 plug – RTK 106 – RPC-2.92 plug - Armour


LU1-502-500_V2

Red O-Ring for Channel marking at one assembly. The other assembly has no O-Ring



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 40 GHz	Marking	Weight (g) / pce
LU1-502-500_V2	$\leq 2.3\text{dB}$ Typical 1.5 dB	ROSENBERGER ssss LU1-502-500_V2 FAC-RRRRRRR 	2* (0,096 g/mm * A mm + 27 g)

XXX – length in mm = A ZZZZ= individual serial number
 ssss – serial no. FAC – Factory Code RRRRRRRR – 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	02S129-2U1S3
Connector right	RPC-2.92 plug	02S129-2U1S3
Cable	RTK 106	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	02S129-2U1/43
Tension sleeve	Stainless steel	02S129-2U1/44

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss ¹	$\geq 17\text{ dB}$, DC to 40 GHz
Insertion loss ¹	see table available variants
Phasematching per pair	$\pm 2^\circ$ up to 40 GHz

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 and with Phasematching parameters. Measurement adaptors used are mentioned in the commentary field.

¹ Return Loss and Insertion Loss includes the measurement adaptor
 intern | internal

Technical Data Sheet

Rosenberger

Cable assembly
RPC-2.92 plug – RTK 106 – RPC-2.92 plug - Armour

LU1-502-500_V2

Mechanical data

Minimum bend radius:
Multiple 40 mm

Environmental data

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

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For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



intern | internal

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Martin Moder	08.03.22						

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