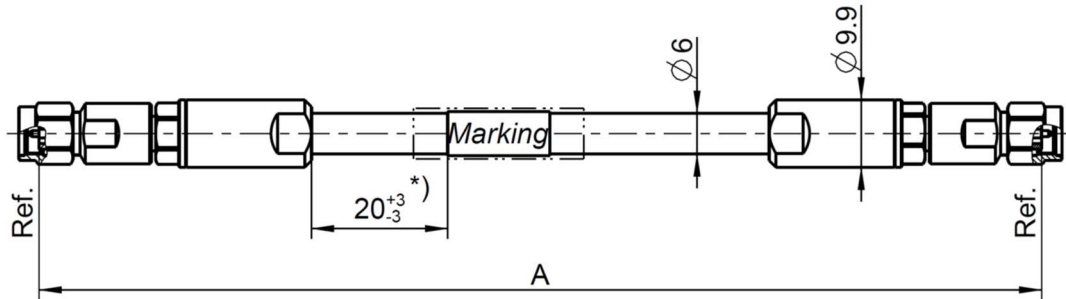


# Technical Data Sheet

# Rosenberger


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

## LU8-507-XXX



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

### Available variants

Type	Insertion loss at 43.5 GHz	Marking	Weight (g) / pce
LU8-507-XXX	$\leq 0.00365$ dB/mm * A mm + 0.9 dB	ROSENBERGER LU8-507-XXX FAC-RRRRRRR 	0.084 g/mm * A mm + 27.8 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	02S129-2U8S3
Connector right	RPC-2.92 plug	02S129-2U8S3
Cable	RTK 125	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	09S129-2U8/43
Tension sleeve	Stainless steel	02S129-2U1/44

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 43.5 GHz
Return loss <sup>1</sup>	$\geq 16$ dB, DC to 43.5 GHz
Insertion loss <sup>1</sup>	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.

<sup>1</sup> Return Loss and Insertion Loss includes the measurement adaptor

# Technical Data Sheet

# Rosenberger

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

## LU8-507-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	19.08.21	200	21-v321	A. Youmsi	19.08.21

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>	Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>	Page 2 / 2
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