


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 18 GHz	Marking	Weight (g) / pce
LU7-505-XXX	$\leq 0.00164\text{ dB/mm} * A\text{ mm} + 0.4\text{ dB}$	ROSENBERGER ssss LU7-505-XXX FAC-RRRRRRR 	$0.139\text{ g/mm} * A\text{ mm} + 27\text{ g}$

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	SMA plug	32S129-2U7S3
Connector right	SMA plug	32S129-2U7S3
Cable	RTK 162	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	05S129-2U7/41
Tension sleeve	Stainless steel	05S129-2U7/42

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 18 GHz
Return loss <sup>1</sup>	$\geq 19\text{ dB}$ , DC to 18 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  
SMA plug – RTK 162 –SMA plug - Armour

## LU7-505-XXX

### Mechanical data

Minimum bend radius:  
Multiple 53 mm

### Environmental data

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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

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	13.10.20	a00	20-s189	A. Youmsi	13.10.20

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
--	--	---------------

RF\_35/09\_14/6.2