


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 26.5 GHz	Marking	Weight (g) / pce
LU7-509-XXX	$\leq 0.00203 \text{ dB/mm} * A \text{ mm} + 0.4 \text{ dB}$	ROSENBERGER ssss LU7-509-XXX FAC-RRRRRRR 	$0.139 \text{ g/mm} * A \text{ mm} + 28 \text{ g}$

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-3.50 plug	03S129-2U7S3
Connector right	RPC-3.50 jack	03K129-2U7S3
Cable	RTK 162	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	05S129-2U7/41
Tension sleeve	Stainless steel	05S129-2U7/41

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 26.5 GHz
Return loss <sup>1</sup>	$\geq 19 \text{ dB}$ , DC to 26.5 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-3.50 plug – RTK 162 – RPC-3.50 jack - Armour

## LU7-509-XXX

### Mechanical data

Minimum bend radius:  
Multiple 53 mm

### Environmental data

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

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Moder	05.04.19	H. Babinger	22.04.21	a00	21-s091	A. Youmsi	22.04.21

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