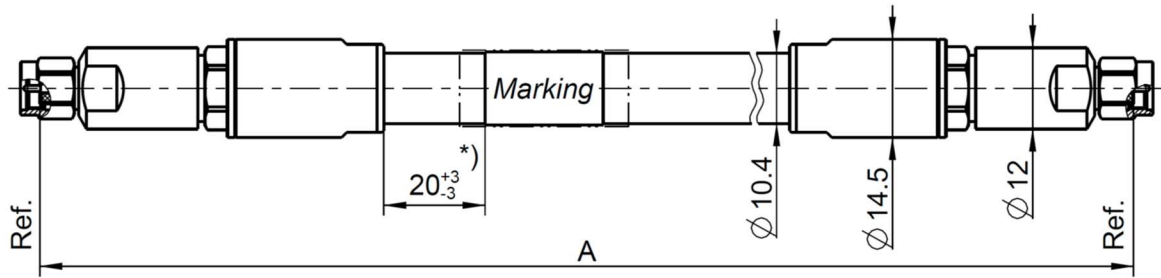


# Technical Data Sheet

# Rosenberger


Cable assembly  
SMA plug – RTK 081 – SMA plug - Armour

## LA2-501-XXX



All dimensions are in mm; tolerances:  $\pm 3$  mm for  $A \leq 300$  mm;  $\pm 1\%$  for  $A > 300$  mm

### Available variants

Type	Insertion loss at 18 GHz	Marking	Weight (g) / pce
LA2-501-XXX	$\leq 0.00066 \text{ dB/mm} * A \text{ mm} + 0.5 \text{ dB}$	ROSENBERGER ssss LA2-501-XXX FAC-RRRRRRR 	$0.265 \text{ g/mm} * A \text{ mm} + 15 \text{ g}$

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	32S129-2A2S3
Connector right	SMA plug	32S129-2A2S3
Cable	RTK 081	
Armour	T3 Armour	
Clamping sleeve	Stainless steel	05S129-2A2/41
Tension sleeve	Stainless steel	05S129-2A2/42

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 18 GHz
Return loss <sup>1</sup>	$\geq 17 \text{ dB}$ , 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

### Mechanical data

Minimum bend radius: Multiple 80 mm

### Environmental data

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

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	09.05.19	Herbert Babinger	22.04.21	a00	21-s090	M.Ruf	22.04.21

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