


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                                |
|-------------|---|--|---|
| LU7-504-XXX | $\leq 0.00164\text{ dB/mm} * A\text{ mm} + 0.4\text{ dB}$ | ROSENBERGER<br>LU7-504-XXX FAC-RRRRRRR<br>ssss<br> | $0.063\text{ g/mm} * A\text{ mm} + 13\text{ g}$ |

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  |              |

**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

## LU7-504-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 | 13.10.20 | a00  | 20-s189                   | A. Youmsi | 13.10.20 |

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