



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 LU7-504-XXX FAC-RRRRRRR ssss  | $0.063\text{ g/mm} * A\text{ mm} + 13\text{ g}$ |

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 Ω |
| Frequency | DC to 18 GHz |
| Return loss ¹ | $\geq 19\text{ dB}$, DC to 18 GHz |
| Insertion loss ¹ | 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.

¹ 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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