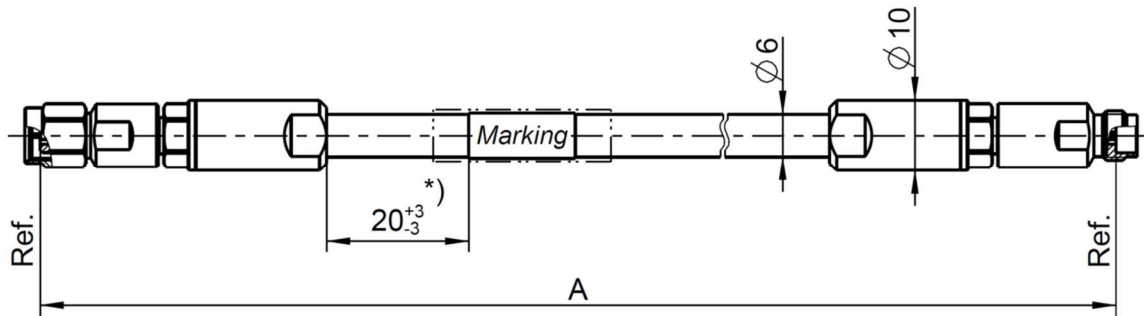


Technical Data Sheet

Rosenberger


Cable assembly
RPC-2.40 plug – RTK 125 – RPC-2.40 jack - Armour

LU8-503-XXX



All dimensions are in mm; tolerances: ± 3 mm for $A \leq 300$ mm; $\pm 1\%$ for $A > 300$ mm
*) If length "A" < 150 mm marking is mount centric ± 5 mm

Available variants

| Type | Insertion loss at 50 GHz | Marking | Weight (g) / pce |
|-------------|--|--|--|
| LU8-503-XXX | $\leq 0.00397 \text{ dB/mm} * A \text{ mm} + 0.9 \text{ dB}$ | ROSENBERGER ssss LU8-503-XXX FAC-RRRRRRR  | $0.087 \text{ g/mm} * A \text{ mm} + 28 \text{ g}$ |

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-2.40 plug | 09S129-2U8S3 |
| Connector right | RPC-2.40 jack | 09K129-2U8S3 |
| Cable | RTK 125 | |
| Armour | T3 Armour | |
| Clamping sleeve | Stainless steel | 09S129-2U8/43 |
| Tension sleeve | Stainless steel | 02S129-2U1/44 |

Electrical data

| | |
|-----------------------------|---------------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 50 GHz |
| Return loss ¹ | $\geq 16.5 \text{ dB}$, DC to 50 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

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Cable assembly
RPC-2.40 plug – RTK 125 – RPC-2.40 jack - Armour

LU8-503-XXX

Mechanical data

Minimum bend radius:
Multiple 32 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 |
|--------------|----------|-------------|----------|------|---------------------------|-----------|----------|
| Martin Moder | 20.05.19 | H. Babinger | 18.09.19 | 100 | 19-v502 | A. Youmsi | 18.09.19 |

| | | |
|--|--|---------------|
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