

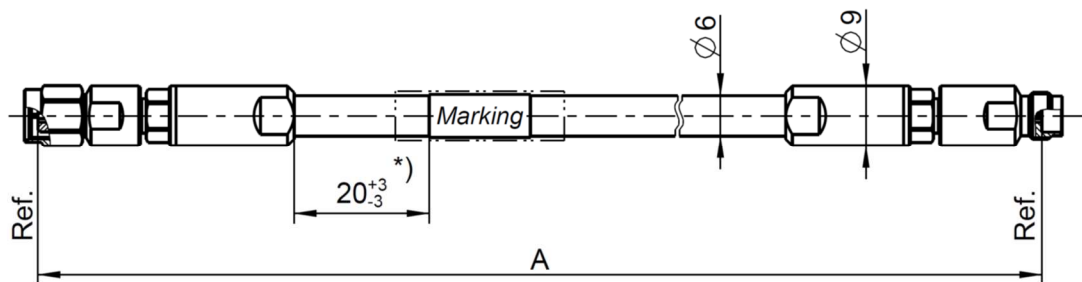
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RF\_35/09;14/6.2

## Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-1.85 plug – RTK 092-70 – RPC-1.85 jack -Armour

## LU5-503-XXX



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 70 GHz                                      | Marking                                                                                                                      | Weight (g) / pce                                       |
|-------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| LU5-503-XXX | $\leq 0.00639\text{ dB/mm} \cdot A\text{ mm} + 0.9\text{ dB}$ | ROSENBERGER<br>LU5-503-XXX FAC-RRRRRRR<br> | $0.076\text{ g/mm} \cdot A\text{ mm} + 24.4.\text{ g}$ |

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-1.85 plug   | 08S129-2U5S3  |
| Connector right | RPC-1.85 jack   | 08K129-2U5S3  |
| Cable           | RTK 092-70      |               |
| Armour          | T3 Armour       |               |
| Clamping sleeve | Stainless steel | 08S129-2U5/43 |
| Tension sleeve  | Stainless steel | 08S129-2U5/44 |

### Electrical data

|                             |                                    |
|-----------------------------|------------------------------------|
| Impedance                   | 50 $\Omega$                        |
| Frequency                   | DC to 70 GHz                       |
| Return loss <sup>1</sup>    | $\geq 14\text{ dB}$ , DC to 70 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

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|                                                                                                                                                                                                                                                                                                                                                     |          |             |          |                                                     |                           |           |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|-----------------------------------------------------|---------------------------|-----------|-------------------|
| Technical Data Sheet                                                                                                                                                                                                                                                                                                                                |          |             |          | Rosenberger                                         |                           |           |                   |
| Cable assembly<br>RPC-1.85 plug – RTK 092-70 – RPC-1.85 jack -Armour                                                                                                                                                                                                                                                                                |          |             |          | LU5-503-XXX                                         |                           |           |                   |
| <div>Mechanical data</div> <div>Minimum bend radius:<br/>Multiple32 mm</div> <div>Environmental data</div> <div>Temperature range-40°C to +85°C<br/>RoHScompliant</div>                                                                                                                                                                             |          |             |          |                                                     |                           |           |                   |
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| Draft                                                                                                                                                                                                                                                                                                                                               | Date     | Approved    | Date     | Rev.                                                | Engineering change number | Name      | Date              |
| Martin Moder                                                                                                                                                                                                                                                                                                                                        | 20.05.19 | H. Babinger | 09.09.19 | 100                                                 | 19-v502                   | A. Youmsi | 09.09.19          |
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