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RF\_35/09.14/6.2

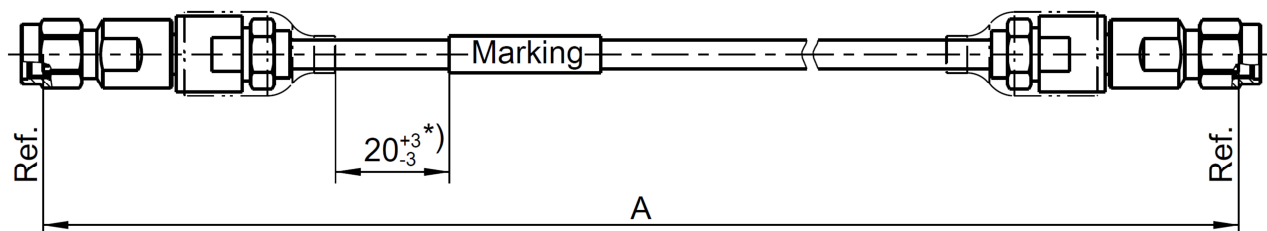
## Technical Data Sheet

# Rosenberger

### Cable assembly

RPC-2.92 Plug / RPC-2.92 Plug – RTK 106

## LU1-001-XXX



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

\*) If length "A"  $\leq 150$  mm marking is mount centric  $\pm 5$  mm

### Available variants

| Type        | max. Insertion loss at 40 GHz                               | Marking                                                | Weight (g) / pce                                   |
|-------------|-------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|
| LU1-001-XXX | $\leq 0.0029 \text{ dB/mm} * A \text{ mm} + 0.5 \text{ dB}$ | ROSENBERGER YYYY-WW<br>LU1-001-XXX<br>FAC-RRRRRRR ssss | $0.036 \text{ g/mm} * A \text{ mm} + 27 \text{ g}$ |

XXX – length in mm = A

WW – week

YYYY – year

ssss – serial no.

FAC – Factory Code

RRRRRRR – lot nr.

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-2.92 plug | 02S121-2U1S3 |
| Connector right | RPC-2.92 plug | 02S121-2U1S3 |
| Cable           | RTK 106       |              |

### Electrical data

|                             |                                     |
|-----------------------------|-------------------------------------|
| Impedance                   | 50 $\Omega$                         |
| Frequency                   | DC to 40 GHz                        |
| Return loss <sup>1</sup>    | $\geq 17 \text{ dB}$ , DC to 40 GHz |
| Insertion loss <sup>1</sup> | see table available variants        |

<sup>1</sup> Return Loss and Insertion Loss includes the measurement adaptor

### Mechanical data

|                      |         |
|----------------------|---------|
| Minimum bend radius: |         |
| Single               | 6.35 mm |
| Multiple             | 38.4 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          |
| F. Reiner                                                                                                                                              | 08.02.16 | M. Moder | 15.02.16 | b00                                                                                          | 16-s071                   | Maik Knoll | 15.02.16      |
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