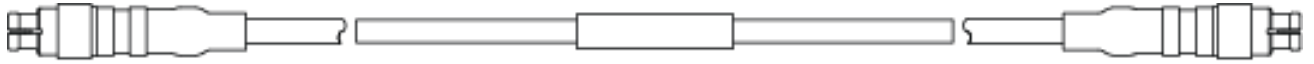


# Technical Data Sheet

# Rosenberger

Cable assembly  
Mini SMP / Mini SMP – RTK-Flex047

## 70W-18K1-18K1-XXXXX



All dimensions are in mm; tolerances:  
 $\leq 100$ :  $XXX \pm 2.0$ ;  $> 100$  to  $\leq 1500$ :  $XXX \pm 5.0$ ;  $> 1500$  to  $\leq 3000$ :  $XXX \pm 10.0$ ;  $> 3000$ :  $\pm 1.5\%$

### Available variants

| Type                | Max Insertion Loss                 | Marking                                 | Weight (g) / pce          |
|---------------------|------------------------------------|---|---------------------------|
| 70W-18K1-18K1-XXXXX | $\leq 0.013$ dB/mm * A mm +0.64 dB | ROSENBERGER YYWW<br>70W-18K1-18K1-XXXXX | 0.0052 g/mm * A mm +0.4 g |

XXXXX – length in mm = A

WW – week

YY – year

Note: max Insertion Loss:

First Constant = Cable attenuation in dB/mm; Second Constant = Connector left and Connector right

Weight:

First Constant = Cable weight per mm; Second Constant = Connector left and Connector right per pce

### Assembly parts

|                 |               |              |
|-----------------|---------------|--------------|
| Connector left  | Mini SMP Jack | 18K101-270L5 |
| Connector right | Mini SMP Jack | 18K101-270L5 |
| Cable           | RTK-Flex047   |              |

### Electrical data

|                             |   |
|-----------------------------|---|
| Impedance                   | 50 $\Omega$   |
| Frequency                   | DC to 65 GHz  |
| Return Loss <sup>1</sup>    | $\geq 20.5$ dB, DC to 18 GHz<br>$\geq 11.5$ dB, 18 GHz to 40 GHz<br>$\geq 6.5$ dB, 40 GHz to 65 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               | 5 mm  |
| Multiple             | 10 mm |

### Environmental data

|                   |                 |
|-------------------|-----------------|
| Temperature range | -55°C to +155°C |
| RoHS              | compliant       |

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

| Draft   | Date     | Approved     | Date     | Rev. | Engineering change number | Name  | Date          |
|---|----------|--------------|----------|------|---------------------------|---|---------------|
| Lizzy Beller  | 01/07/20 | Mark Bennett | 01/17/20 | 100  | Preliminary               | Mark Bennett  | 01/17/20      |
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