

# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-1.85 / WSMP – RTK-Flex047

**70W-08K1-W1K1-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-08K1-W1K1-XXXXX | $\leq 0.0137 \text{ dB/mm} * A \text{ mm} + 1.42 \text{ dB}$ | ROSENBERGER YYWW<br>70W-08K1-W1K1-XXXXX | $0.0052 \text{ g/mm} * A \text{ mm} + 2.87 \text{ g}$ |

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  | RPC-1.85 Jack | 08K141-270L5 |
| Connector right | WSMP Jack     | W1K101-270D3 |
| Cable           | RTK-Flex047   |              |

### Electrical data

|                             |   |
|-----------------------------|---|
| Impedance                   | 50 $\Omega$                               |
| Frequency                   | DC to 65 GHz                              |
| Return Loss <sup>1</sup>    | $\geq 16 \text{ dB}$ , DC to 26.5 GHz     |
|                             | $\geq 13 \text{ dB}$ , 26.5 GHz to 50 GHz |
|                             | $\geq 12 \text{ dB}$ , 50 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 +125°C |
| RoHS              | compliant       |

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| Draft   | Date     | Approved     | Date     | Rev.  | Engineering change number | Name         | Date          |
|---|----------|--------------|----------|---|---------------------------|--------------|---------------|
| Lizzy Beller  | 01/08/20 | Mark Bennett | 01/17/20 | 100   | Preliminary               | Mark Bennett | 01/17/20      |
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