

Technical Data Sheet

Rosenberger

Cable assembly
WSMP / WSMP – RTK-Flex047

70W-W1K1-W1K2-XXXXX



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

Available variants

| Type | Max Insertion Loss | Marking | Weight (g) / pce |
|---------------------|--|---|---|
| 70W-W1K1-W1K2-XXXXX | $\leq 0.0131 \text{ dB/mm} * A \text{ mm} + 1.93 \text{ dB}$ | ROSENBERGER YYWW 70W-W1K1-W1K2-XXXXX | $0.0052 \text{ g/mm} * A \text{ mm} + 0.19 \text{ g}$ |

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 | WSMP Jack | W1K101-270D3 |
| Connector right | WSMP Jack | W1K203-270D3 |
| Cable | RTK-Flex047 | |

Electrical data

| | |
|-----------------------------|---|
| Impedance | 50 Ω |
| Frequency | DC to 65 GHz |
| Return Loss ¹ | $\geq 20.5 \text{ dB}$, DC to 26.5 GHz |
| | $\geq 10.5 \text{ dB}$, 26.5 GHz to 65 GHz |
| Insertion Loss ¹ | see table available variants |

¹ Return Loss and Insertion Loss includes the measurement adaptor

Mechanical data

| | |
|----------------------|-------|
| Minimum bend radius: | |
| Single | 5 mm |
| Multiple | 10 mm |

Environmental data

| | |
|-------------------|-----------------|
| Temperature range | -40°C to +125°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 | 01/08/20 | Mark Bennett | 01/20/20 | 100 | Preliminary | Mark Bennett | 01/20/20 |

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