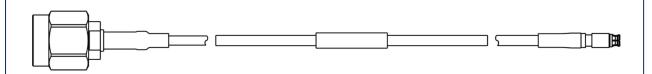
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# **Technical Data Sheet**

# Rosenberger

Cable assembly RPC-1.85 / WSMP - RTK-Flex047

# 70U-08S1-W1K1-XXXXXMY



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
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Туре	Max Insertion Loss	Marking	Weight (g) / pce
70U-08S1-W1K1-XXXXXMY	≤ 0.0137 dB/mm * A mm	Rosenberger NA wwyy	0.0052 g/mm * A mm
	+ 1.42 dB	70U-08S1-W1K1-XXXXXMY	+ 2.97 g

XXXXX - length in mm = A

MY - (M) matching type:

ww - week yy – year P = pair matched; L = lot matched; within (Y) picoseconds measured at midband

A ≥ 102 mm: Also marked with delay value in picoseconds and pair or lot ID

max Insertion Loss: Note:

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

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

### Assembly parts

Connector left RPC-1.85 Plug 08S141-270L5 Connector right WSMP Jack W1K101-270D3 RTK-Flex 047 Cable

# Electrical data

50 Ω Impedance

DC to 70 GHz Frequency

Return Loss<sup>1</sup> ≥ 15 dB, DC to 18 GHz ≥ 10 dB, 18 GHz to 50 GHz

≥ 8 dB, 50 GHz to 70 GHz see table available variants

Insertion Loss<sup>1</sup> **Delay Matching** PY: pair-matched within Y ps

LY: lot-matched within Y ps, lots ≤ 25 pcs

### Mechanical data

Minimum bend radius:

Single 5 mm Multiple 10 mm

## **Environmental data**

-40°C to +125°C Temperature range 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	01/20/2020	a00	20-u000	J. Havener	12/18/2020
Rosenberger North America			Tel. : +1.717.859.8900 Fax : +1.717.859.7044			Page	
P.O. Box 309 Akron, PA USA 17501 www.rosenbergerna.com				Email: info@rosenbergerna.com			1 / 1

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