

# Technical Data Sheet

# Rosenberger

Cable assembly  
Mini SMP / SMP – RTK-Flex047

## 70W-18K2-19K1-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-18K2-19K1-XXXXX	$\leq 0.0093$ dB/mm * A mm +0.38 dB	ROSENBERGER YYWW 70W-18K2-19K1-XXXXX	0.0052 g/mm * A mm +0.8 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	18K201-270E4
Connector right	SMP Jack	19K107-270L5
Cable	RTK-Flex047	

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 65 GHz
Return Loss <sup>1</sup>	$\geq 22$ dB, DC to 6 GHz $\geq 19.5$ dB, 6 GHz to 12 GHz $\geq 17.5$ dB, 12 GHz to 18 GHz $\geq 13.5$ dB, 18 GHz to 30 GHz $\geq 12$ dB, 30 GHz 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	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	01/07/20	Mark Bennett	01/20/20	100	Preliminary	Mark Bennett	01/20/20
Rosenberger North America P.O. Box 309 Akron, PA USA 17501 <a href="http://www.rosenbergerna.com">www.rosenbergerna.com</a>					Tel. : +1.717.859.8900 Fax : +1.717.859.7044 Email : <a href="mailto:info@rosenbergerna.com">info@rosenbergerna.com</a>		Page 1 / 1

**PROPRIETARY AND CONFIDENTIAL**  
 This data sheet is the property of Rosenberger North America. By acceptance of this document you agree that all the rights to drawings, specifications, processes and other data therein, as well as the proprietary and novel features of the subject matter, are reserved by Rosenberger North America and are disclosed in confidence. They are not to be manufactured, used, sold or disclosed to others, nor are devices embodying such features or information derived from these disclosures to be used or disclosed, unless and until expressly authorized by Rosenberger North America. These drawings, specifications, processes, etc., are and remain the property of Rosenberger North America, and are not to be copied or reproduced without permission.