

# Technical Data Sheet

# Rosenberger

Cable assembly  
Mini SMP / SMP – RTK-Flex047

## 70W-18K1-19K2-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-18K1-19K2-XXXXX	$\leq 0.0073$ dB/mm * A mm +0.72 dB	ROSENBERGER YYWW 70W-18K1-19K2-XXXXX	0.0052 g/mm * A mm + 0.5 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	SMP Jack	19K207-270L5
Cable	RTK-Flex047	

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 26.5 GHz
Return Loss <sup>1</sup>	$\geq 17$ dB, DC to 18 GHz $\geq 11$ dB, 18 GHz to 26.5 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

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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
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

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