

# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-1.85 / Mini SMP – RTK-Flex047

**70W-08S1-18K1-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-08S1-18K1-XXXXX	$\leq 0.013$ dB/mm * A mm +0.73 dB	ROSENBERGER YYWW 70W-08S1-18K1-XXXXX	0.0052 g/mm * A mm +3.1 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 Plug	08S141-270L5
Connector right	Mini SMP Jack	18K101-270L5
Cable	RTK-Flex047	

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 65 GHz
Return Loss <sup>1</sup>	$\geq 16$ dB, DC to 18 GHz $\geq 12.5$ dB, 18 GHz to 40 GHz $\geq 9$ dB, 40 GHz to 50 GHz $\geq 8$ 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
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