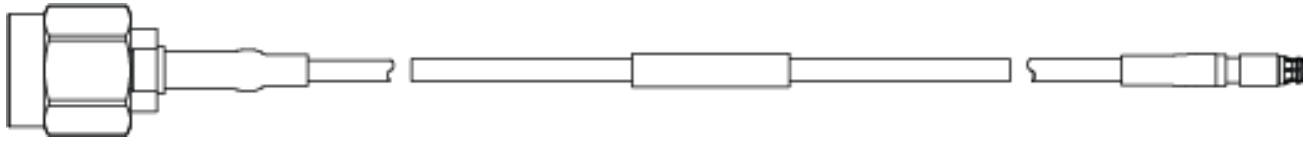


# Technical Data Sheet

# Rosenberger

Cable assembly  
RPC-1.85 / WSMP – RTK-Flex047

**70W-08S1-W1K1-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-W1K1-XXXXX	$\leq 0.0137 \text{ dB/mm} * A \text{ mm} + 1.42 \text{ dB}$	ROSENBERGER YYWW 70W-08S1-W1K1-XXXXX	$0.0052 \text{ g/mm} * A \text{ mm} + 2.97 \text{ g}$

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	RPC-1.85 Plug	08S141-270L5
Connector right	WSMP Jack	W1K101-270D3
Cable	RTK-Flex047	

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 70 GHz
Return Loss <sup>1</sup>	$\geq 16 \text{ dB}$ , DC to 26.5 GHz $\geq 13 \text{ dB}$ , 26.5 GHz to 50 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

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	01/17/20	100	Preliminary	Mark Bennett	01/17/20
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