

Technical Data Sheet

Rosenberger

Cable assembly
RPC-1.85 / WSMP – RTK-Flex047

70W-08K1-W1K1-XXXXX



All dimensions are in mm; tolerances:
 ≤ 100 : $XXX \pm 2.0$; > 100 to ≤ 1500 : $XXX \pm 5.0$; > 1500 to ≤ 3000 : $XXX \pm 10.0$; > 3000 : $\pm 1.5\%$

Available variants

Type	Max Insertion Loss	Marking	Weight (g) / pce
70W-08K1-W1K1-XXXXX	$\leq 0.0137 \text{ dB/mm} * A \text{ mm} + 1.42 \text{ dB}$	ROSENBERGER YYWW 70W-08K1-W1K1-XXXXX	$0.0052 \text{ g/mm} * A \text{ mm} + 2.87 \text{ g}$

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 Jack	08K141-270L5
Connector right	WSMP Jack	W1K101-270D3
Cable	RTK-Flex047	

Electrical data

Impedance	50 Ω
Frequency	DC to 65 GHz
Return Loss ¹	$\geq 16 \text{ dB}$, DC to 26.5 GHz
	$\geq 13 \text{ dB}$, 26.5 GHz to 50 GHz
	$\geq 12 \text{ dB}$, 50 GHz to 65 GHz
Insertion Loss ¹	see table available variants

¹ 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
Lizzy Beller	01/08/20	Mark Bennett	01/17/20	100	Preliminary	Mark Bennett	01/17/20
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