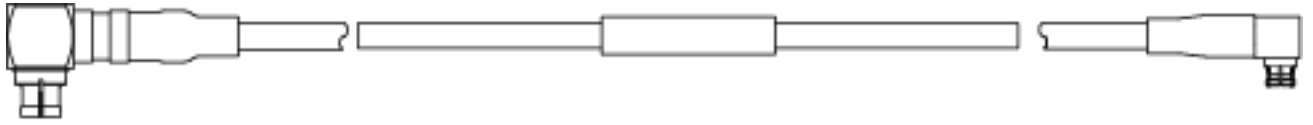


Technical Data Sheet

Rosenberger

Cable assembly
Mini SMP / WSMP – RTK-Flex047

70W-18K2-W1K2-XXXXX



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

Available variants

Type	Max Insertion Loss	Marking	Weight (g) / pce
70W-18K2-W1K2-XXXXX	$\leq 0.013 \text{ dB/mm} * A \text{ mm} + 1.37 \text{ dB}$	ROSENBERGER YYWW 70W-18K2-W1K2-XXXXX	$0.0052 \text{ g/mm} * A \text{ mm} + 0.62 \text{ g}$

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	Mini SMP Jack	18K201-270E4
Connector right	WSMP Jack	W1K203-270D3
Cable	RTK-Flex047	

Electrical data

Impedance	50 Ω
Frequency	DC to 65 GHz
Return Loss ¹	$\geq 22.5 \text{ dB}$, DC to 6 GHz
	$\geq 20 \text{ dB}$, 6 to 12 GHz
	$\geq 18 \text{ dB}$, 12 to 18 GHz
	$\geq 16.5 \text{ dB}$, 18 to 26.5 GHz
	$\geq 11 \text{ dB}$, 26.5 to 30 GHz
	$\geq 10 \text{ dB}$, 30 to 40 GHz
	$\geq 7 \text{ dB}$, 40 to 50 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 +155°C
RoHS	compliant

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 RNA Datasheet! Rev-
 6/26/19

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Lizzy Beller	01/08/20	Mark Bennett	01/20/20	100	Preliminary	Mark Bennett	01/20/20
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