



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SF 102

SUCOFLEX 100, the flexible, high performance microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	
Dielectric:	LDPTFE		
1. Outer conductor:	CuAg wrapped Foil	100% coverage	
2. Outer conductor:	CuAg Braid		
Jacket:	FEP	RAL 5000 - bl	3.75 mm

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	46	GHz
Capacitance:	87	pF / m
Velocity of signal propagation:	77	%
Signal delay:	4.3	ns / m
Min. screening effectiveness:	> 90	dB (up to 18 GHz)
Max. operating voltage:	1.4	kV _{rms} (at sea level)

General Data

Temperature range:	-55 °C...+ 165 °C
Weight:	4 kg / 100 m
Min. bending radius :	static 12 mm
	dynamic 20 mm

Suitable Connectors

Cable group *n/a*
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **SF 102** (available only as assembly)

WAIVER!

While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



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Matrix **Attenuation** [formula : (a*f^0.5 +b*f)] and **Power CW** [formula : (p*/f^0.5)]

Coefficients:

a= 0.37

b= 0.0071

f_{max.}= 46

p_{at 1GHz} = 394

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
1	0.38	0.116	394
2	0.54	0.165	279
4	0.77	0.235	197
5	0.86	0.262	176
7	1.03	0.314	149
8	1.10	0.335	139
10	1.24	0.378	125
11	1.31	0.399	119
12	1.37	0.418	114
14	1.48	0.451	105
15	1.54	0.469	102
17	1.65	0.503	96
18	1.70	0.518	93
20	1.80	0.549	88
21	1.84	0.561	86
23	1.94	0.591	82
24	1.98	0.603	80
25	2.03	0.619	79
27	2.11	0.643	76
28	2.16	0.658	74
30	2.24	0.683	72
31	2.28	0.695	71
33	2.36	0.719	69
34	2.40	0.731	68
35	2.44	0.744	67
37	2.51	0.765	65
38	2.55	0.777	64
40	2.62	0.799	62
41	2.66	0.811	62
43	2.73	0.832	60
44	2.77	0.844	59
46	2.84	0.866	58

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