



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SF 103

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	4.4 mm

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	33	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:	2	kV _{rms} (at sea level)

General Data

Temperature range:	-55 °C...+ 165 °C
Weight:	5.3 kg / 100 m
Min. bending radius :	static 13 mm
	dynamic 22 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 103** (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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Page 1



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

Coefficients:

a= 0.2836

b= 0.0071

f_{max.}= 33

p_{at 1GHz} = 615

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	0.29	0.088	615
2	0.42	0.128	435
3	0.51	0.155	355
4	0.60	0.183	308
5	0.67	0.204	275
6	0.74	0.226	251
7	0.80	0.244	232
8	0.86	0.262	217
9	0.91	0.277	205
10	0.97	0.296	194
11	1.02	0.311	185
12	1.07	0.326	178
13	1.11	0.338	171
14	1.16	0.354	164
15	1.20	0.366	159
16	1.25	0.381	154
17	1.29	0.393	149
18	1.33	0.405	145
19	1.37	0.418	141
20	1.41	0.430	138
21	1.45	0.442	134
22	1.49	0.454	131
23	1.52	0.463	128
24	1.56	0.475	126
25	1.60	0.488	123
26	1.63	0.497	121
27	1.67	0.509	118
28	1.70	0.518	116
29	1.73	0.527	114
30	1.77	0.539	112
31	1.80	0.549	110
33	1.86	0.567	107

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