



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SF 104

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	5.5 mm

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	26.5	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:	2.6	kV _{rms} (at sea level)

General Data

Temperature range:	-55 °C...+ 165 °C
Weight:	8.4 kg / 100 m
Min. bending radius :	static 16 mm
	dynamic 25 mm

Suitable Connectors

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

Notes

Order as **SF 104** (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.



HUBER+SUHNER AG
Interconnect Division
CH-9100 Herisau
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
<http://www.hubersuhner.com>

Issued: 29.4.2003 08:43

Document: TEMP_PDB_225108
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Page 1



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Matrix **Attenuation** [formula : $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula : $(p \cdot f^{0.5})$]

Coefficients:

a= 0.2291

b= 0.0071

$f_{max.} = 26.5$

$p_{at 1GHz} = 907$

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
0.5	0.17	0.052	1283
1	0.24	0.073	907
2	0.34	0.104	641
3	0.42	0.128	524
4	0.49	0.149	454
5	0.55	0.168	406
6	0.60	0.183	370
7	0.66	0.201	343
8	0.70	0.213	321
9	0.75	0.229	302
10	0.80	0.244	287
11	0.84	0.256	273
12	0.88	0.268	262
13	0.92	0.280	252
14	0.96	0.293	242
15	0.99	0.302	234
16	1.03	0.314	227
17	1.07	0.326	220
18	1.10	0.335	214
19	1.13	0.344	208
20	1.17	0.357	203
21	1.20	0.366	198
22	1.23	0.375	193
23	1.26	0.384	189
24	1.29	0.393	185
25	1.32	0.402	181
26	1.35	0.411	178
26.5	1.37	0.418	176

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Page 2