

SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SF 101

SUCOFLEX 100, the flexible, high performance microwave cable

Cable Design

Material Detail Diameter Wire

Centre conductor: CuAg

Dielectric: **LDPTFE**

1. Outer conductor: CuAg wrapped Foil 100% coverage

2. Outer conductor: CuAg Braid

FEP RAL 5000 - bl Jacket: 3.5 mm

Electrical Data

Impedance:		50	Ω
Max. operating frequency:		50	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:		1.2	kV _{rms} (at sea level)

General Data

Temperature range: Weight: Min. bending radius :	static		C+ 165 °C kg / 100 m 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 101 (available only as assembly)

WAIVER

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

Coefficients:

a= 0.4255 b= 0.01 $f_{max.}=50$ $p_{at 1GHz}=296$

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power	
(GHz)	(dB / m)	(dB / ft)	(watt)	
	sea level	sea level	sea level	
	25° C ambient temperature	25° C ambient temperature	40° C ambient temperature	
1	0.44	0.134	296	
3	0.77	0.235	171	
4	0.89	0.271	148	
6	1.10	0.335	121	
7	1.20	0.366	112	
9	1.37	0.418	99	
10	1.45	0.442	94	
12	1.59	0.485	85	
14	1.73	0.527	<i>7</i> 9	
15	1.80	0.549	76	
17	1.92	0.585	72	
18	1.99	0.607	70	
20	2.10	0.640	66	
21	2.16	0.658	65	
23	2.27	0.692	62	
25	2.38	0.725	59	
26	2.43	0.741	58	
28	2.53	0.771	56	
29	2.58	0.786	55	
31	2.68	0.817	53	
32	2.73	0.832	52	
34	2.82	0.859	51	
35	2.87	0.875	50	
37	2.96	0.902	49	
39	3.05	0.930	47	
40	3.09	0.942	47	
42	3.18	0.969	46	
43	3.22	0.981	45	
45	3.30	1.006	44	
46	3.35	1.021	44	
48	3.43	1.045	43	
50	3.51	1.070	42	

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