



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 86

SUCOFORM, the handformable microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Wire	0.53 mm
Dielectric:	PTFE		1.65 mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	2.1 mm

Print: SUHNER SUCOFORM 86 (Batch no.)

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	18	GHz
Capacitance:	95	pF / m
Velocity of signal propagation:	71	%
Signal delay:	4.7	ns / m
Min. screening effectiveness:	> 100	dB (up to 18 GHz)
Max. operating voltage:	1.5	kV _{rms} (at sea level)

General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	1.5 kg / 100 m
Min. bending radius :	static 6 mm
	repeated (for max. 50 bendings) 20 mm

Suitable Connectors

Cable group Y3 / Y11
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **SM 86** under article number **22511613**

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

Coefficients:

a= 0.6283

b= 0.04

f_{max}= 18

p_{at 1GHz} = 162

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	0.46	0.140	229
1	0.67	0.204	162
2	0.97	0.296	115
3	1.21	0.369	94
4	1.42	0.433	81
5	1.60	0.488	72
6	1.78	0.543	66
7	1.94	0.591	61
8	2.10	0.640	57
9	2.24	0.683	54
10	2.39	0.728	51
11	2.52	0.768	49
12	2.66	0.811	47
13	2.79	0.850	45
14	2.91	0.887	43
15	3.03	0.923	42
16	3.15	0.960	41
17	3.27	0.997	39
18	3.39	1.033	38

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