



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 86 LSFH

SUCOFORM, the handformable microwave cable with protective jacket

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
Jacket:	LSFH	RAL 9005 - bk	3.2 mm
Print:	SUHNER SUCOFORM 86 LSFH (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:	-40 °C...+ 85 °C
Weight:	2.4 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 LSFH** under article number **22512147**

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 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 : $(p \cdot f^{0.5})$]

Coefficients:

a= 0.6283

b= 0.04

f_{max} = 18

p_{at 1GHz} = 30

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	42
1	0.67	0.204	30
2	0.97	0.296	21
3	1.21	0.369	17
4	1.42	0.433	15
5	1.60	0.488	13
6	1.78	0.543	12
7	1.94	0.591	11
8	2.10	0.640	11
9	2.24	0.683	10
10	2.39	0.728	9
11	2.52	0.768	9
12	2.66	0.811	9
13	2.79	0.850	8
14	2.91	0.887	8
15	3.03	0.923	8
16	3.15	0.960	8
17	3.27	0.997	7
18	3.39	1.033	7

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