



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141 LSFH

SUCOFORM, the handformable microwave cable with protective jacket

Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Wire	0.95 mm
Dielectric:	PTFE		2.95 mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	3.58 mm
Jacket:	LSFH	RAL 9005 - bk	4.6 mm
Print:	SUHNER SUCOFORM 141 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:	5.5 kg / 100 m
Min. bending radius :	static 8 mm
	repeated (for max. 50 bendings) 40 mm

Suitable Connectors

Cable group	Y5 / Y12
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)	

Notes

Order as **SM 141 LSFH** under article number **22512148**

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.



HUBER+SUHNER

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: 26.6.2002 07:40

Document: TEMP_PDB_2251214
8.PDF

RF_Co_Ca_PDF

uncontrolled copy

Page 1



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141 LSFH

Matrix **Attenuation** [formula : $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula : $(p^2 / f^{0.5})$]

Coefficients:

a= 0.355

b= 0.04

f_{max}= 18

p_{at 1GHz} = 90

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	0.27	0.082	127
1	0.40	0.122	90
2	0.58	0.177	64
3	0.73	0.222	52
4	0.87	0.265	45
5	0.99	0.302	40
6	1.11	0.338	37
7	1.22	0.372	34
8	1.32	0.402	32
9	1.43	0.436	30
10	1.52	0.463	28
11	1.62	0.494	27
12	1.71	0.521	26
13	1.80	0.549	25
14	1.89	0.576	24
15	1.97	0.600	23
16	2.06	0.628	23
17	2.14	0.652	22
18	2.23	0.680	21

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.

Issued: 26.6.2002 07:40

Document: TEMP_PDB_2251214
8.PDF

RF_Co_Ca_PDF

uncontrolled copy

Page 2



HUBER+SUHNER

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>