



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141 FEP

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:	FEP	RAL 3027 - rd	4.1 mm
Print:	SUHNER SUCOFORM 141 FEP (Batch no.)		

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	18	GHz
Capacitance:	94	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:	1.9	kV _{rms} (at sea level)

General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	4.7 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 FEP** under article number **22511944**

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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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Page 1



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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= 0.355

b= 0.04

f_{max}= 18

p_{at 1GHz} = 560

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	792
1	0.40	0.122	560
2	0.58	0.177	396
3	0.73	0.222	323
4	0.87	0.265	280
5	0.99	0.302	250
6	1.11	0.338	229
7	1.22	0.372	212
8	1.32	0.402	198
9	1.43	0.436	187
10	1.52	0.463	177
11	1.62	0.494	169
12	1.71	0.521	162
13	1.80	0.549	155
14	1.89	0.576	150
15	1.97	0.600	145
16	2.06	0.628	140
17	2.14	0.652	136
18	2.23	0.680	132

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Page 2