



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141-100 FEP

SUCOFORM, the handformable microwave cable with protective jacket

Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Wire	0.29 mm
Dielectric:	PTFE		2.95 mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	3.45 mm
Jacket:	FEP	RAL 3027 - rd	4.1 mm
Print:	SUHNER SUCOFORM 141-100 FEP (Batch no.)		

Electrical Data

Impedance:	100	Ω
Max. operating frequency:	4	GHz
Capacitance:	47	pF / m
Velocity of signal propagation:	71	%
Signal delay:	4.7	ns / m
Min. screening effectiveness:	> 100	dB (up to 4 GHz)
Max. operating voltage:	1.9	kV _{rms} (at sea level)

General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	4.3 kg / 100 m
Min. bending radius :	static 8 mm
	repeated (for max. 50 bendings) 40 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 **SM 141-100 FEP** under article number **22512289**

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 : $(p^2 / f^{0.5})$]

Coefficients:

a= 0.5473

b= 0.006438

f_{max}= 4

p_{at 1GHz} = 280

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
0.20	0.25	0.076	626
0.40	0.35	0.107	443
0.60	0.43	0.131	361
0.80	0.49	0.149	313
1.00	0.55	0.168	280
1.20	0.61	0.186	256
1.40	0.66	0.201	237
1.60	0.70	0.213	221
1.80	0.75	0.229	209
2.00	0.79	0.241	198
2.20	0.83	0.253	189
2.40	0.86	0.262	181
2.60	0.90	0.274	174
2.80	0.93	0.283	167
3.00	0.97	0.296	162
3.20	1.00	0.305	157
3.40	1.03	0.314	152
3.60	1.06	0.323	148
3.80	1.09	0.332	144
4.00	1.12	0.341	140

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