



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 250 FEP

SUCOFORM, the handformable microwave cable with protective jacket

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	1.64 mm
Dielectric:	PTFE		5.27 mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	6.05 mm
Jacket:	FEP	RAL 3027 - rd	6.7 mm
Print:	SUHNER SUCOFORM 250 FEP (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:	3.5	kV _{rms} (at sea level)

General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	13 kg / 100 m
Min. bending radius :	static 30 mm
	repeated (for max. 50 bendings) 120 mm

Suitable Connectors

Cable group Y13
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **SM 250 FEP** under article number **22512260**

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= 0.21

b= 0.031

f_{max}= 18

p_{at 1GHz} = 1000

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	0.16	0.049	1414
1	0.24	0.073	1000
2	0.36	0.110	707
3	0.46	0.140	577
4	0.54	0.165	500
5	0.62	0.189	447
6	0.70	0.213	408
7	0.77	0.235	378
8	0.84	0.256	354
9	0.91	0.277	333
10	0.97	0.296	316
11	1.04	0.317	302
12	1.10	0.335	289
13	1.16	0.354	277
14	1.22	0.372	267
15	1.28	0.390	258
16	1.34	0.408	250
17	1.39	0.424	243
18	1.45	0.442	236

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