



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141-75

SUCOFORM, the handformable microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Wire	0.52 mm
Dielectric:	PTFE		2.95 mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	3.58 mm

Print: SUHNER SUCOFORM 141-75 (Batch no.)

Electrical Data

Impedance:	75	Ω
Max. operating frequency:	4	GHz
Capacitance:	62	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:	3.8 kg / 100 m
Min. bending radius :	static 8 mm
	repeated (for max. 50 bendings) 40 mm

Suitable Connectors

Cable group Y6
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **SM 141-75** under article number **22511721**

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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 construed 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*f^0.5 +b*f)] and Power CW [formula : (p*/ f^0.5)]

Coefficients:

a= 0.4457

b= 0.01086

f_{max}= 4

p_{at 1GHz} = 404

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	0.20	0.061	903
0.40	0.29	0.088	639
0.60	0.35	0.107	522
0.80	0.41	0.125	452
1.00	0.46	0.140	404
1.20	0.50	0.152	369
1.40	0.54	0.165	341
1.60	0.58	0.177	319
1.80	0.62	0.189	301
2.00	0.65	0.198	286
2.20	0.68	0.207	272
2.40	0.72	0.219	261
2.60	0.75	0.229	251
2.80	0.78	0.238	241
3.00	0.80	0.244	233
3.20	0.83	0.253	226
3.40	0.86	0.262	219
3.60	0.88	0.268	213
3.80	0.91	0.277	207
4.00	0.93	0.283	202

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