



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141-35

SUCOFORM, the handformable microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	1.4 mm
Dielectric:	PTFE		2.95 mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	3.58 mm

Print: SUHNER SUCOFORM 141-35 (Batch no.)

Electrical Data

Impedance:	35	Ω
Max. operating frequency:	4	GHz
Capacitance:	144	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:	4.7 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 141-35** under article number **22512104**

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

Coefficients:

a= 0.51114

b= 0.008958

f_{max} = 4

p_{at 1GHz} = 372

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	0.23	0.070	832
0.40	0.33	0.101	588
0.60	0.40	0.122	480
0.80	0.46	0.140	416
1.00	0.52	0.158	372
1.20	0.57	0.174	340
1.40	0.62	0.189	314
1.60	0.66	0.201	294
1.80	0.70	0.213	277
2.00	0.74	0.226	263
2.20	0.78	0.238	251
2.40	0.81	0.247	240
2.60	0.85	0.259	231
2.80	0.88	0.268	222
3.00	0.91	0.277	215
3.20	0.94	0.286	208
3.40	0.97	0.296	202
3.60	1.00	0.305	196
3.80	1.03	0.314	191
4.00	1.06	0.323	186

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