



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141-75 FEP

SUCOFORM, the handformable microwave cable with protective jacket

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
Jacket:	FEP	RAL 3027 - rd	4.1 mm
Print:	SUHNER SUCOFORM 141-75 FEP (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:	4.5 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 FEP** under article number **22512290**

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.



HUBER+SUHNER

HUBER+SUHNER AG
Interconnect Division
CH-9100 Herisau
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
<http://www.hubersuhner.com>

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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= 0.4457

b= 0.01086

f_{max} = 4

p_{at 1GHz} = 426

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	953
0.40	0.29	0.088	674
0.60	0.35	0.107	550
0.80	0.41	0.125	476
1.00	0.46	0.140	426
1.20	0.50	0.152	389
1.40	0.54	0.165	360
1.60	0.58	0.177	337
1.80	0.62	0.189	318
2.00	0.65	0.198	301
2.20	0.68	0.207	287
2.40	0.72	0.219	275
2.60	0.75	0.229	264
2.80	0.78	0.238	255
3.00	0.80	0.244	246
3.20	0.83	0.253	238
3.40	0.86	0.262	231
3.60	0.88	0.268	225
3.80	0.91	0.277	219
4.00	0.93	0.283	213

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