



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 86-75 FEP

SUCOFORM, the handformable microwave cable with protective jacket

Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Wire	0.29 mm
Dielectric:	PTFE		1.65 mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	2.1 mm
Jacket:	FEP	RAL 3027 - rd	2.5 mm
Print:	SUHNER SUCOFORM 86-75 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:	1.5	kV _{rms} (at sea level)

General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	1.7 kg / 100 m
Min. bending radius :	static 6 mm
	repeated (for max. 50 bendings) 20 mm

Suitable Connectors

Cable group	Y4
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)	

Notes

Order as **SM 86-75 FEP** under article number **22511970**

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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Issued: 5.6.2002 10:44

Document: TEMP_PDB_2251197
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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= 0.671

b= 0.0672

f_{max} = 4

p_{at 1GHz} = 130

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	0.31	0.094	291
0.40	0.45	0.137	206
0.60	0.56	0.171	168
0.80	0.65	0.198	145
1.00	0.74	0.226	130
1.20	0.82	0.250	119
1.40	0.89	0.271	110
1.60	0.96	0.293	103
1.80	1.02	0.311	97
2.00	1.08	0.329	92
2.20	1.14	0.347	88
2.40	1.20	0.366	84
2.60	1.26	0.384	81
2.80	1.31	0.399	78
3.00	1.36	0.415	75
3.20	1.42	0.433	73
3.40	1.47	0.448	71
3.60	1.52	0.463	69
3.80	1.56	0.475	67
4.00	1.61	0.491	65

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