



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SUCOFORM_141_75

SUCOFORM, the handformable microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	<i>Steel: Copper+Silver Plated</i>	<i>Wire</i>	0.52 mm
Dielectric:	<i>PTFE (Polytetrafluorethyln.)</i>		2.95 mm
1. Outer conductor:	<i>Copper: Tin Plated</i>	<i>Tin soaked braid</i>	3.58 mm
Print:	<i>HUBER+SUHNER SUCOFORM 141 75 Ohm (PA no.)</i>		

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 **SUCOFORM_141_75**



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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