

SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141

SUCOFORM, the handformable microwave cable

Cable Design

	Material	Detail		Diam	neter
Centre conductor:	Steel: Copper+Silver	r Plated Wire			
Dielectric:	PTFE (Polytetrafluo	rethyln.)			
1. Outer conductor:	Copper: Tin Plated T	Tin soaked braid	1	100%	coverage
Print:	SUHNER SUCOFORM 14	41 (Batch no.)			
Electrical Data					
Impedance:			5	50	Ω
Max. operating frequency:			1	18	GHz
Capacitance:			9	2	pF/m
Velocity of signal propagation	on:		7	71	%
Signal delay:			4	<i>1.7</i>	ns / m
Min. screening effectivene	ess:		> 1	100	dB (up to 18 GHz)
Max. operating voltage:			1	1.9	kV _{rms} (at sea level)

General Data

Temperature range:		-65 °	°C+ 165 °C
Weight:		4	kg / 100 m
Min. bending radius :	static	8	mm
	repeated (for max. 50 bendings)	40	mm

Suitable Connectors

Cable group Y5 / Y12

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

Notes

Order as SM_141 (available only as assembly)

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Issued: 24.2.2004 15:01

Document:

DOC-0000177915

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

Coefficients:

a= 0.355 b= 0.04 $f_{max} = 18$ $p_{at 1GHz} = 425$

requency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(watt)
	sea level	sea level	sea level
	25° C ambient temperature	25° C ambient temperature	40° C ambient temperature
0.5	0.27	0.082	601
1	0.40	0.122	425
2	0.58	0.177	301
3	0.73	0.222	245
4	0.87	0.265	213
5	0.99	0.302	190
6	1.11	0.338	174
7	1.22	0.372	161
8	1.32	0.402	150
9	1.43	0.436	142
10	1.52	0.463	134
11	1.62	0.494	128
12	1.71	0.521	123
13	1.80	0.549	118
14	1.89	0.576	114
15	1.97	0.600	110
16	2.06	0.628	106
17	2.14	0.652	103
18	2.23	0.680	100

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