

SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141 PE

SUCOFORM, the handformable microwave cable with protective jacket

Cable Design

	Material	Detail	Dian	neter
Centre conductor:	StCuAg	Wire	0.95	mm
Dielectric:	PTFE		2.95	mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	3.58	mm
Jacket:	PE	RAL 3004 - rd	4.6	mm
Print:	SUHNER SUCOFORM 141 PE	(Batch no.)		

Electrical Data

Impedance:	50	Ω Ω
Max. operating frequency:	18	8 GHz
Capacitance:	94	4 pF/m
Velocity of signal propagation:	7	1 %
Signal delay:	4.	7 ns/m
Min. screening effectiveness:	> 10	00 dB (up to 18 GHz)
Max. operating voltage:	1.	9 kV _{ms} (at sea level)

General Data

Temperature range:		-40°	'с+ <i>85</i> °с
Weight:		4.7	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 PE under article number 22511632

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

Coefficients:

a = 0.355 $f_{\text{max}}=18$ b = 0.04 $p_{\text{at 1GHz}} = 90$

Frequency	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	127
1	0.40	0.122	90
2	0.58	0.177	64
3	0.73	0.222	52
4	0.87	0.265	45
5	0.99	0.302	40
6	1.11	0.338	37
7	1.22	0.372	34
8	1.32	0.402	32
9	1.43	0.436	30
10	1.52	0.463	28
11	1.62	0.494	27
12	1.71	0.521	26
13	1.80	0.549	25
14	1.89	0.576	24
15	1.97	0.600	23
16	2.06	0.628	23
17	2.14	0.652	22
18	2.23	0.680	21

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