

SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 86 PE

SUCOFORM, the handformable microwave cable with protective jacket

Cable Design

	Material	Detail	Dian	neter
Centre conductor:	StCuAg	Wire	0.53	mm
Dielectric:	PTFE		1.65	mm
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	2.1	mm
Jacket:	PE	RAL 3004 - rd	3.2	mm
Print:	SUHNER SUCOFORM 86 PE (E	Batch no.)		

Electrical Data

Impedance:	5	50 Ω
Max. operating frequency:	1	18 GHz
Capacitance:	9	9 5 pF/m
Velocity of signal propagation:	7	71 %
Signal delay:	4	4.7 ns/m
Min. screening effectiveness:	> 1	100 dB (up to 18 GHz)
Max. operating voltage:	1	1.5 kV _{ms} (at sea level)

General Data

Temperature range:		-40°	c+ 85 °c
Weight:		1.7	kg / 100 m
Min. bending radius :	static	6	mm
	repeated (for max. 50 bendings)	20	mm

Suitable Connectors

Cable group Y3 / Y11

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

Notes

Order as SM 86 PE under article number 22511631

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

Coefficients:

a= 0.6283 b= 0.04 $f_{max} = 18$ $p_{at 1GHz} = 30$

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	0.46	0.140	42
1	0.67	0.204	30
2	0.97	0.296	21
3	1.21	0.369	17
4	1.42	0.433	15
5	1.60	0.488	13
6	1.78	0.543	12
7	1.94	0.591	11
8	2.10	0.640	11
9	2.24	0.683	10
10	2.39	0.728	9
11	2.52	0.768	9
12	2.66	0.811	9
13	2.79	0.850	8
14	2.91	0.887	8
15	3.03	0.923	8
16	3.15	0.960	8
17	3.27	0.997	7
18	3.39	1.033	7

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