

SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SM 141 Cu FEP

SUCOFORM, the handformable microwave cable with protective jacket

Cable Design

	Material	Detail	Diamete	۲:
Centre conductor:	CuAg	Wire	0.95 mm	
Dielectric:	PTFE		2.95 mm	
1. Outer conductor:	CuSn Tin soaked braid	100% coverage	3.58 mm	
Jacket:	FEP	RAL 3027 - rd	4.1 mm	
Print:	SUHNER SUCOFORM 141 CuFEP (Batch no.)			

Electrical Data

Impedance:	50	Ω Ο
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:		-65°	с+ <i>165</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 Cu FEP under article number 22512256

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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 $f_{max.=} 18$ $p_{at 1GHz} = 560$

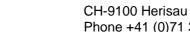
Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
. (GHz)	(dB / m)	(dB / ft)	(watt)
, ,	sea level	sea level	sea level
	25° C ambient temperature	25° C ambient temperature	40° C ambient temperature
0.5	0.27	0.082	792
1	0.40	0.122	560
2	0.58	0.177	396
3	0.73	0.222	323
4	0.87	0.265	280
5	0.99	0.302	250
6	1.11	0.338	229
7	1.22	0.372	212
8	1.32	0.402	198
9	1.43	0.436	187
10	1.52	0.463	177
11	1.62	0.494	169
12	1.71	0.521	162
13	1.80	0.549	155
14	1.89	0.576	150
15	1.97	0.600	145
16	2.06	0.628	140
17	2.14	0.652	136
18	2.23	0.680	132

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