



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE MF 141

MULTIFLEX, the flexible microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	0.92 mm
Dielectric:	PTFE		2.96 mm
1. Outer conductor:	CuAg wrapped Foil	100% coverage	3.2 mm
2. Outer conductor:	CuAg Braid	80% coverage	3.56 mm
Jacket:	FEP	RAL 5015 - bl	4.14 mm
Print:	SUHNER MULTIFLEX 141 (Batch no.)		

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	18	GHz
Capacitance:	95	pF / m
Velocity of signal propagation:	70	%
Signal delay:	4.7	ns / m
Min. screening effectiveness:	> 90	dB (up to 18 GHz)
Max. operating voltage:	1.9	kV _{rms} (at sea level)

General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	4.5 kg / 100 m
Min. bending radius :	static 10 mm
	dynamic 40 mm

Suitable Connectors

Cable group Y12

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

Notes

Order as **MF 141** under article number **22511964**

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While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be constructed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



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

Coefficients:

a= 0.3732

b= 0.0279

f_{max}= 18

p_{at 1GHz} = 373

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
0.5	0.28	0.085	528
1	0.40	0.122	373
2	0.58	0.177	264
3	0.73	0.222	215
4	0.86	0.262	187
5	0.97	0.296	167
6	1.08	0.329	152
7	1.18	0.360	141
8	1.28	0.390	132
9	1.37	0.418	124
10	1.46	0.445	118
11	1.54	0.469	112
12	1.63	0.497	108
13	1.71	0.521	103
14	1.79	0.546	100
15	1.86	0.567	96
16	1.94	0.591	93
17	2.01	0.613	90
18	2.09	0.637	88

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