



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE EZ 47/M17

SEMI RIGID, the formstable microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Wire	0.29 mm
Dielectric:	PTFE		0.93 mm
1. Outer conductor:	Cu Tube	100% coverage	1.19 mm

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	20	GHz
Capacitance:	105	pF / m
Velocity of signal propagation:	69.5	%
Signal delay:	4.8	ns / m
Min. screening effectiveness:	> 120	dB (up to 18 GHz)
Max. operating voltage:	1	kV _{rms} (at sea level)

General Data

Temperature range:	-40 °C...+ 100 °C
Weight:	0.71 kg / 100 m
Min. bending radius :	static 3.18 mm

Suitable Connectors

Cable group Y2
(for details refer to the "Suhner Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **EZ 47/M17** under article number **22810500**

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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= 1.04044

b= 0.03967

f_{max} = 20

p_{at 1GHz} = 32

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	0.76	0.232	45
1	1.08	0.329	32
2	1.55	0.472	23
3	1.92	0.585	18
4	2.24	0.683	16
5	2.52	0.768	14
6	2.79	0.850	13
7	3.03	0.923	12
8	3.26	0.994	11
9	3.48	1.061	11
10	3.69	1.125	10
11	3.89	1.186	10
12	4.08	1.244	9
13	4.27	1.301	9
14	4.45	1.356	9
15	4.62	1.408	8
16	4.80	1.463	8
17	4.96	1.512	8
18	5.13	1.564	8
19	5.29	1.612	7
20	5.45	1.661	7

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