



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE EZ 47-TP/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-TP 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-TP/M17** under article number **22810504**

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Matrix **Attenuation** [formula : (a*f^0.5 +b*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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