



# SUHNER® MICROWAVE CABLE DATA SHEET

## TYPE EZ 250/M17

**SEMI RIGID**, the formstable microwave cable

### Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	1.63 mm
Dielectric:	PTFE		5.31 mm
1. Outer conductor:	Cu Tube	100% coverage	6.35 mm

### Electrical Data

Impedance:	50	$\Omega$
Max. operating frequency:	18	GHz
Capacitance:	97.1	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:	3	kV <sub>rms</sub> (at sea level)

### General Data

Temperature range:	-40 °C...+ 90 °C
Weight:	15.8 kg / 100 m
Min. bending radius :	static 19 mm

### Suitable Connectors

Cable group

Y7

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

### Notes

Order as **EZ 250/M17** under article number **22810701**

#### WAIVER!

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 :  $(p^2 / f^{0.5})$ ]

Coefficients:

a= 0.1836

b= 0.03967

f<sub>max</sub>= 18

p<sub>at 1GHz</sub> = 1400

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	0.15	0.046	1980
1	0.22	0.067	1400
2	0.34	0.104	990
3	0.44	0.134	808
4	0.53	0.162	700
5	0.61	0.186	626
6	0.69	0.210	572
7	0.76	0.232	529
8	0.84	0.256	495
9	0.91	0.277	467
10	0.98	0.299	443
11	1.05	0.320	422
12	1.11	0.338	404
13	1.18	0.360	388
14	1.24	0.378	374
15	1.31	0.399	361
16	1.37	0.418	350
17	1.43	0.436	340
18	1.49	0.454	330

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