



# SUHNER® MICROWAVE CABLE DATA SHEET

## TYPE EZ 86-AL-TP/M17

*SEMI RIGID, the formstable microwave cable*

### Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Wire	0.51 mm
Dielectric:	PTFE		1.68 mm
1. Outer conductor:	Al-TP Tube	100% coverage	2.2 mm

### Electrical Data

Impedance:	50	$\Omega$
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:	1.5	kV <sub>rms</sub> (at sea level)

### General Data

Temperature range:	-40 °C...+ 125 °C
Weight:	1.19 kg / 100 m
Min. bending radius :	static 1.78 mm

### Suitable Connectors

Cable group Y3 / Y11  
(for details refer to the "Suhner Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

### Notes

Order as **EZ 86-AL-TP/M17** under article number **22810167**

#### 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= 0.61998

b= 0.03967

f<sub>max</sub> = 20

p<sub>at 1GHz</sub> = 130

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	0.46	0.140	184
1	0.66	0.201	130
2	0.96	0.293	92
3	1.19	0.363	75
4	1.40	0.427	65
5	1.58	0.482	58
6	1.76	0.536	53
7	1.92	0.585	49
8	2.07	0.631	46
9	2.22	0.677	43
10	2.36	0.719	41
11	2.49	0.759	39
12	2.62	0.799	38
13	2.75	0.838	36
14	2.88	0.878	35
15	3.00	0.914	34
16	3.11	0.948	33
17	3.23	0.984	32
18	3.34	1.018	31
19	3.46	1.055	30
20	3.57	1.088	29

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