



# SUHNER® MICROWAVE CABLE DATA SHEET

## TYPE EZ 86-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:	Cu-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:	2.35 kg / 100 m
Min. bending radius :	static 3.18 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-TP/M17** under article number **22810175**

#### WAIVER!

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**HUBER+SUHNER**

HUBER+SUHNER AG  
Interconnect Division  
CH-9100 Herisau  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
<http://www.hubersuhner.com>

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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= 0.58454

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	0.43	0.131	184
1	0.62	0.189	130
2	0.91	0.277	92
3	1.13	0.344	75
4	1.33	0.405	65
5	1.51	0.460	58
6	1.67	0.509	53
7	1.82	0.555	49
8	1.97	0.600	46
9	2.11	0.643	43
10	2.25	0.686	41
11	2.38	0.725	39
12	2.50	0.762	38
13	2.62	0.799	36
14	2.74	0.835	35
15	2.86	0.872	34
16	2.97	0.905	33
17	3.08	0.939	32
18	3.19	0.972	31
19	3.30	1.006	30
20	3.41	1.039	29

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