



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE EZ_86_TP_M17

SEMI RIGID, the formstable microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	<i>Steel: Copper+Silver Plated</i>	<i>Wire</i>	0.51 mm
Dielectric:	<i>PTFE (Polytetrafluorethyln.)</i>		1.68 mm
1. Outer conductor:	<i>Copper / TP</i>	<i>Tube</i>	2.2 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 20 GHz)
Max. operating voltage:	1.5 kV _{rms} (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 "Suhrner Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **EZ_86_TP_M17**

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Matrix Attenuation [formula : (a*f^0.5 +b*f)] and Power CW [formula : (p*/f^0.5)]

Coefficients:

a= 0.58454

b= 0.03967

f_{max} = 20

p_{at 1GHz} = 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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