



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE EZ 118-TP

SEMI RIGID, the formstable microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	0.81 mm
Dielectric:	LA-PTFE		2.31 mm
1. Outer conductor:	Cu-TP Tube	100% coverage	2.95 mm

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	40	GHz
Capacitance:	98	pF / m
Velocity of signal propagation:	80	%
Signal delay:	4.17	ns / m
Min. screening effectiveness:	> 120	dB (up to 18 GHz)
Max. operating voltage:	1.5	kV _{rms} (at sea level)

General Data

Temperature range:	-40 °C...+ 125 °C
Weight:	3.4 kg / 100 m
Min. bending radius :	static 9.53 mm

Suitable Connectors

Cable group

Y10

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

Notes

Order as **EZ 118-TP** under article number **22810073**

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*f^{0.5} + b*f)] and **Power CW** [formula : (p*/f^{0.5})]

Coefficients:

a= 0.3804

b= 0.00791

f_{max} = 40

p_{at 1GHz} = 598

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
1	0.39	0.119	598
2	0.55	0.168	423
3	0.68	0.207	345
5	0.89	0.271	267
6	0.98	0.299	244
7	1.06	0.323	226
8	1.14	0.347	211
10	1.28	0.390	189
11	1.35	0.411	180
12	1.41	0.430	173
13	1.47	0.448	166
15	1.59	0.485	154
16	1.65	0.503	150
17	1.70	0.518	145
18	1.76	0.536	141
20	1.86	0.567	134
21	1.91	0.582	130
22	1.96	0.597	127
23	2.01	0.613	125
25	2.10	0.640	120
26	2.15	0.655	117
27	2.19	0.667	115
28	2.23	0.680	113
30	2.32	0.707	109
31	2.36	0.719	107
32	2.40	0.731	106
33	2.45	0.747	104
35	2.53	0.771	101
36	2.57	0.783	100
37	2.61	0.795	98
38	2.65	0.808	97
40	2.72	0.829	95

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