



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE EZ 250-AL-TP

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:	Al-TP Tube	100% coverage	6.35 mm

Electrical Data

Impedance:	50	Ω
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 _{rms} (at sea level)

General Data

Temperature range:	-40 °C...+ 90 °C
Weight:	8.86 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 you nearest HUBER+SUHNER partner)

Notes

Order as **EZ 250-AL-TP** under article number **22810708**

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

Coefficients:

a= 0.1963

b= 0.03967

f_{max}= 18

p_{at 1GHz} = 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	0.16	0.049	1980
1	0.24	0.073	1400
2	0.36	0.110	990
3	0.46	0.140	808
4	0.55	0.168	700
5	0.64	0.195	626
6	0.72	0.219	572
7	0.80	0.244	529
8	0.87	0.265	495
9	0.95	0.290	467
10	1.02	0.311	443
11	1.09	0.332	422
12	1.16	0.354	404
13	1.22	0.372	388
14	1.29	0.393	374
15	1.36	0.415	361
16	1.42	0.433	350
17	1.48	0.451	340
18	1.55	0.472	330

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