
TYPE EZ 141-AL-TP/M17

SEMI RIGID, the formstable microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	<i>StCuAg</i>	<i>Wire</i>	<i>0.92</i> mm
Dielectric:	<i>PTFE</i>		<i>2.98</i> mm
1. Outer conductor:	<i>Al-TP Tube</i>	<i>100% coverage</i>	<i>3.58</i> mm

Electrical Data

Impedance:	<i>50</i>	Ω
Max. operating frequency:	<i>20</i>	GHz
Capacitance:	<i>98.1</i>	pF / m
Velocity of signal propagation:	<i>69.5</i>	%
Signal delay:	<i>4.8</i>	ns / m
Min. screening effectiveness:	> <i>120</i>	dB (up to 18 GHz)
Max. operating voltage:	<i>1.9</i>	kV _{rms} (at sea level)

General Data

Temperature range:	<i>-40 °C...+ 125 °C</i>
Weight:	<i>3.05</i> kg / 100 m
Min. bending radius :	static <i>3.18</i> mm

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Issued: 5.6.2002 10:30

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

Coefficients:

a= 0.34536

b= 0.03967

f_{max}= 20

p_{at 1GHz} = 450

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	0.26	0.079	636
1	0.39	0.119	450
2	0.57	0.174	318
3	0.72	0.219	260
4	0.85	0.259	225
5	0.97	0.296	201
6	1.08	0.329	184
7	1.19	0.363	170
8	1.29	0.393	159
9	1.39	0.424	150
10	1.49	0.454	142
11	1.58	0.482	136
12	1.67	0.509	130
13	1.76	0.536	125
14	1.85	0.564	120
15	1.93	0.588	116
16	2.02	0.616	113
17	2.10	0.640	109
18	2.18	0.664	106
19	2.26	0.689	103
20	2.34	0.713	101

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