



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE EZ 141-CU-TP

SEMI RIGID, the formstable microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	0.92 mm
Dielectric:	PTFE		2.98 mm
1. Outer conductor:	Cu-TP Tube	100% coverage	3.58 mm

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	20	GHz
Capacitance:	98.1	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:	1.9	kV _{rms} (at sea level)

General Data

Temperature range:	-40 °C...+ 125 °C
Weight:	5.21 kg / 100 m
Min. bending radius :	static 6.35 mm

Suitable Connectors

Cable group Y5 / Y12
(for details refer to the "Suhner Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **EZ 141-CU-TP** under article number **22810050**

WAIVER!

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Page 1



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

Coefficients:

a= 0.32544

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	0.25	0.076	636
1	0.37	0.113	450
2	0.54	0.165	318
3	0.68	0.207	260
4	0.81	0.247	225
5	0.93	0.283	201
6	1.04	0.317	184
7	1.14	0.347	170
8	1.24	0.378	159
9	1.33	0.405	150
10	1.43	0.436	142
11	1.52	0.463	136
12	1.60	0.488	130
13	1.69	0.515	125
14	1.77	0.539	120
15	1.86	0.567	116
16	1.94	0.591	113
17	2.02	0.616	109
18	2.09	0.637	106
19	2.17	0.661	103
20	2.25	0.686	101

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Page 2