



# SUHNER® MICROWAVE CABLE DATA SHEET

## TYPE EZ 47-AL-TP

**SEMI RIGID**, the formstable microwave cable

### Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Wire	0.29 mm
Dielectric:	PTFE		0.93 mm
1. Outer conductor:	Al-TP Tube	100% coverage	1.19 mm

### Electrical Data

Impedance:	50	$\Omega$
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 18 GHz)
Max. operating voltage:	1	kV <sub>rms</sub> (at sea level)

### General Data

Temperature range:	-40 °C...+ 100 °C
Weight:	0.31 kg / 100 m
Min. bending radius :	static 1.27 mm

### Suitable Connectors

Cable group Y2  
(for details refer to the "Suhner Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

### Notes

Order as **EZ 47-AL-TP** under article number **22810510**

#### WAIVER!

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**Matrix**      **Attenuation** [formula :  $(a \cdot f^{0.5} + b \cdot f)$ ] and **Power CW** [formula :  $(p^2 / f^{0.5})$ ]

Coefficients:

a= 1.10366

b= 0.03967

f<sub>max</sub> = 20

p<sub>at 1GHz</sub> = 32

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	0.80	0.244	45
1	1.14	0.347	32
2	1.64	0.500	23
3	2.03	0.619	18
4	2.37	0.722	16
5	2.67	0.814	14
6	2.94	0.896	13
7	3.20	0.975	12
8	3.44	1.048	11
9	3.67	1.119	11
10	3.89	1.186	10
11	4.10	1.250	10
12	4.30	1.311	9
13	4.50	1.372	9
14	4.68	1.426	9
15	4.87	1.484	8
16	5.05	1.539	8
17	5.22	1.591	8
18	5.40	1.646	8
19	5.56	1.695	7
20	5.73	1.746	7

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