SUHNER® MICROWAVE CABLE DATA SHEET

TYPE EZ_141_TP_M17

SEMI RIGID, the formstable microwave cable

Cable Design

	Material	Detail	Diameter	
Centre conductor:	*Steel: Copper+Silver Plated*	*Wire*	*0.92*	mm
Dielectric:	*PTFE (Polytetrafluorethyln.)*		*2.99*	mm
1. Outer conductor:	*Copper / TP*	*Tube*	*3.58*	mm

Electrical Data

Impedance:	*50*	Ω	
Max. operating frequency:	*33*	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	*4.78*	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_TP_M17*

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

Coefficients:

a= *0.32544* b= *0.03967* $f_{max.}$ = *33* $p_{at\ 1GHz}$ = *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
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***
21	***2.32***	***0.707***	***98***
22	***2.40***	***0.731***	***96***
23	***2.47***	***0.753***	***94***
24	***2.55***	***0.777***	***92***
25	***2.62***	***0.799***	***90***
26	***2.69***	***0.820***	***88***
27	***2.76***	***0.841***	***87***
28	***2.83***	***0.863***	***85***
29	***2.90***	***0.884***	***84***
30	***2.97***	***0.905***	***82***
31	***3.04***	***0.927***	***81***
33	***3.18***	***0.969***	***78***

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