

AWG 线规表

AWG	截面积MM ²													
42	0.003	1/0.06												
41	0.004	1/0.07												
40	0.005	1/0.08												
38	0.008	1/0.10												
36	0.013	1/0.127												
34	0.020	1/0.16	7/0.06											
32	0.032	1/0.203	7/0.08	8/0.07	11/0.06									
30	0.051	1/0.26	7/0.10	11/0.08	14/0.07	19/0.06								
28	0.081	1/0.32	7/0.12	11/0.10	16/0.08	21/0.07	28/0.06							
26	0.129	1/0.40	7/0.16	9/0.14	11/0.12	16/0.10	25/0.08	33/0.07	45/0.06					
24	0.205	1/0.50	7/0.20	14/0.14	19/0.12	26/0.10	41/0.08	53/0.07	73/0.06					
22	0.320	1/0.65	7/0.26	11/0.203	13/0.18	17/0.16	22/0.14	29/0.12	42/0.10	65/0.08				
20	0.518	1/0.80	7/0.30	10/0.26	12/0.23	16/0.203	20/0.18	26/0.16	34/0.14	46/0.12	66/0.10			
18	0.523	1/1.02	7/0.40	10/0.32	16/0.26	20/0.23	26/0.203	33/0.18	41/0.16	54/0.14	73/0.12	65/0.127	104/0.10	
16	1.309	1/1.29	7/0.50	11/0.40	17/0.32	25/0.26	32/0.23	41/0.203	52/0.18	65/0.16	85/0.14	119/0.12	165/0.10	
14	2.031	1/1.63	11/0.50	17/0.40	26/0.32	40/0.26	50/0.23	65/0.203	82/0.18	103/0.16	135/0.14	183/0.12	264/0.10	
12	3.309	1/2.05	17/0.50	27/0.40	41/0.32	54/0.28	80/0.23	102/0.203	130/0.18	164/0.16				
10	5.261	1/2.60	27/0.50	42/0.40	65/0.32	99/0.26	126/0.23	162/0.203	206/0.18	261/0.16				
8	8.366	1/3.26	26/0.65	67/0.40	104/0.32	157/0.26								
6	13.30	1/4.12	27/0.80	40/0.65	68/0.50	105/0.40	165/0.32							
4	21.15	1/5.20	26/1.02	42/0.80	64/0.65	107/0.50	168/0.40							
2	33.63	1/6.544	26/1.29	42/1.02	67/0.80	101/0.65	171/0.50							
0	53.48	1/8.254	26/1.63	41/1.29	66/1.02	106/0.80	161/0.65							

1. 基准线规直径：直径5mil(0.005inch)为36AWG。

2. 相邻线号之间以几何级数计算：见右框图中公式。

例如： $d_{18} = d_{36} * r^{(36-18)} = 5 * 8.06053 = 40.3\text{mils} = 1.024\text{mm}$

$$d_n = d_{36} * r^{(36-n)} \quad (\text{mil})$$

$$= 0.127r^{(36-n)} \quad (\text{mm})$$

其中， $r = (460/5)^{1/39} = 1.1229322$

导体截面积： $S = N * \pi * r^2$

$$S = N * 0.7854 * d^2$$