

线规对照表



换算表

Equivalents of sq. mm, sq. in. and circular mils

Sq. mm	Sq. in.	Cir. mils	AWG	Sq. mm	Sq. in.	Cir. mils	AWG	Sq. mm	Sq. in.	Cir. mils	AWG
1000	1.550	1974000		80	0.1240	157920		9.5	0.01472	18753	
975	1.511	1924700		75	0.1163	148050		9.0	0.01395	17766	
950	1.472	1875300		70	0.1085	138180		8.5	0.01317	16779	
925	1.434	1826000		—	—	133100	2/0	—	—	16510	8
900	1.395	1776600		65	0.1008	128310		8.0	0.01240	15792	
875	1.356	1727300		60	0.0930	118440		7.5	0.01163	14805	
850	1.317	1677900		55	0.0853	108570		7.0	0.01085	13818	
825	1.279	1628600		—	—	105600	1/0	—	—	13090	9
800	1.240	1579200		50	0.0775	98700		6.5	0.01008	12831	
775	1.201	1529900		45	0.0698	88830		6.0	0.00930	11844	
750	1.163	1480500		—	—	83690	1	5.5	0.00853	10857	
725	1.124	1431200		40	0.0620	78960		—	—	10380	10
700	1.085	1381800		35	0.0542	69090		5.0	0.00775	9870	
675	1.046	1332500		—	—	66360	2	4.75	0.00736	9377	
650	1.008	1283100		30	0.0465	59220		4.50	0.00698	8883	
625	0.969	1233800		—	—	52620	3	4.25	0.00659	8390	
600	0.930	1184400		25	0.0388	49350		—	—	8230	11
575	0.891	1135100		—	—	41740	4	4.0	0.00620	7896	
550	0.853	1085700		20	0.0310	39480		3.75	0.00581	7403	
525	0.814	1036400		19.5	0.0302	38490		3.50	0.00542	6909	
500	0.775	987000		19.0	0.0294	37510		—	—	6530	12
475	0.736	937700		18.5	0.0287	36520		3.25	0.00504	6416	
450	0.698	888300		18.0	0.0279	35530		3.0	0.00465	5922	
425	0.659	839000		17.5	0.0271	34550		2.75	0.00426	5429	
400	0.620	789600		17.0	0.0264	33560		—	—	5180	13
375	0.581	740300		—	—	33090	5	2.50	0.00388	4935	
350	0.542	690900		16.5	0.0256	32560		2.25	0.00349	4442	
325	0.504	641600		16.0	0.0248	31580		—	—	4110	14
300	0.465	592200		15.5	0.0240	30600		2.0	0.00310	3948	
275	0.426	542900		15.0	0.0233	29610		1.75	0.00271	3455	
250	0.388	493500		14.5	0.0225	28620		—	—	3260	15
225	0.349	444200		14.0	0.0217	27640		1.50	0.00233	2961	
200	0.310	394800		13.5	0.0209	26650		—	—	2580	16
175	0.271	345500		—	—	26240	6	1.25	0.00194	2468	
150	0.233	296100		13.0	0.0201	25660		—	—	2050	17
125	0.1938	246800		12.5	0.0194	24680		1.0	0.00155	1974	
—	—	211600	4/0	12.0	0.0186	23690		0.9	0.00140	1777	
100	0.1550	197400		11.5	0.0178	22700		—	—	1620	18
95	0.1472	187530		11.0	0.0171	21710		0.8	0.00124	1579	
90	0.1395	177660		—	—	20820	7	0.75	0.00116	1481	
—	—	167800	3/0	10.5	0.0163	20730		0.7	0.00109	1382	
85	0.1317	167790		10.0	0.0155	19740		—	—	1290	19
—	—	—	—	—	—	—	—	0.6	0.00093	1184	
—	—	—	—	—	—	—	—	—	—	1029	20
—	—	—	—	—	—	—	—	0.5	0.000775	987	

单位换算表

Unit	x Constant	= Unit
inch (in)	0.027178	yards (yd)
inch (in)	0.083333	feet (ft)
inch (in)	0.00002540	kilometer (km)
inch (in)	0.025400	meter (m)
inch (in)	2.54000514	centimeter (cm)
inch (in)	25.4000514	millimeter (mm)
inch (in)	1000.0	mils

线规对照表



Solid Copper Wire 实芯铜导线美国线规

Gage (AWG or B&S)	Nominal Diameter		Circular MIL Area	Weight Pounds per 1000 ft.	Resistance @ 68°F Ohms per 1000 ft.
	Inches	mm			
10	.1019	2.60	10380.0	31.43	.9989
11	.0907	2.30	8234.0	24.92	1.260
12	.0808	2.05	6530.0	19.77	1.588
13	.0720	1.83	5178.0	15.68	2.003
14	.0641	1.63	4107.0	12.43	2.525
15	.0571	1.45	3260.0	9.858	3.184
16	.0508	1.29	2583.0	7.818	4.016
17	.0453	1.15	2050.0	6.200	5.064
18	.0403	1.02	1620.0	4.917	6.385
19	.0359	.912	1200.0	3.899	8.051
20	.0320	.813	1020.0	3.092	10.15
21	.0285	.724	812.1	2.452	12.80
22	.0253	.643	640.4	1.954	16.14
23	.0226	.574	511.5	1.542	20.36
24	.0201	.511	404.0	1.223	25.67
25	.0179	.455	320.4	.9699	32.37
26	.0159	.404	253.0	.7692	40.81
27	.0142	.361	201.5	.6100	51.47
28	.0126	.320	159.8	.4837	64.90
29	.0113	.287	126.7	.3836	81.83
30	.0100	.254	100.5	.3042	103.2
31	.0089	.226	79.7	.2413	130.1
32	.0080	.203	63.21	.1913	164.1
33	.0071	.180	50.13	.1517	206.9
34	.0063	.160	39.75	.1203	260.9
35	.0056	.142	31.52	.09542	331.0
36	.0050	.127	25.00	.07568	414.8
37	.0045	.114	19.83	.0613	512.1
38	.0040	.102	15.72	.04759	648.6
39	.0035	.089	12.20	.03774	847.8
40	.0031	.079	9.61	.02993	1080.0

Information from National Bureau of Standards Copper Wire Tables— Handbook 100.

线规对照表



Stranded Copper Wire 多股铜导线美国线规

Gage (AWG or B&S)	Stranding (Nom AWG)	Min. Avg. O.D. of Strand	Approximate O.D.		ASTM Min. Circular MIL Area	Min. Weight Pounds per 1000 ft.	Max. Resistance @ 68°F ⁺⁺⁺ Ohms per 1000 ft.
			Inches	mm			
36	7/44	.0019	.006	.153	25	.076	414.8
34	7/42	.0024	.0075	.191	39.7	.121	260.9
32	7/40	.0030	.0093	.203	64	.195	164.1
32	19/44	.0018	.010	.229	64	.195	164.1
□ 30	7/38	.0038	.012	.305	100	.304	112
30	19/42	.0023	.012	.305	100	.304	112
□ 28	7/36	.0048	.015	.381	159	.484	70.7
□ 28	19/40	.0029	.016	.406	159	.484	70.7
27	7/35	.0054	.017	.457	202	.614	55.6
□ 26	7/34	.0060	.019	.483	253	.770	44.4
26	10/36	.0050	.021	.553	253	.770	44.4
□ 26	19/38	.0036	.020	.508	253	.770	44.4
□ 24	7/32	.0076	.024	.610	404	1.229	27.7
24	10/34	.0064	.024	.584	404	1.229	27.7
□ 24	19/36	.0046	.024	.610	404	1.229	27.7
□ 24	42/40	.0031	.023	.584	404	1.229	27.7
□ 22	7/30	.0096	.030	.762	640	1.947	17.5
□ 22	19/34	.0058	.031	.787	640	1.947	17.5
22	26/36	.0050	.030	.762	640	1.947	17.5
□ 20	7/28	.0126	.037	.890	1020	3.103	10.9
20	10/30	.0101	.037	.890	1020	3.103	10.9
□ 20	19/32	.0073	.037	.940	1020	3.103	10.9
20	26/34	.0063	.036	.914	1020	3.103	10.9
□ 20	42/36	.0049	.036	.914	1020	3.103	10.9
□ 18	7/26	.0152	.048	1.22	1620	4.93	6.92
18	16/30	.0101	.047	1.20	1620	4.93	6.92
□ 18	19/30	.0092	.049	1.24	1620	4.93	6.92
□ 18	42/34	.0062	.047	1.20	1620	4.93	6.92
□ 18	65/36	.0050	.047	1.20	1620	4.93	6.92
□ 16	7/24	.0192	.060	1.52	2580	7.85	4.35
□ 16	19/29	.0117	.058	1.47	2580	7.85	4.35
16	26/30	.0100	.059	1.50	2580	7.85	4.35
□ 16	65/34	.0063	.059	1.50	2580	7.85	4.35
16	105/36	.0050	.059	1.50	2580	7.85	4.35
□ 14	7/22	.0242	.076	1.85	4110	12.50	2.73
□ 14	19/26	.0147	.071	1.85	4110	12.50	2.73
□ 14	42/30	.0099	.075	1.85	4110	12.50	2.73
14	105/34	.0063	.075	1.85	4110	12.50	2.73
□ 12	7/20	.0305	.096	2.44	6530	19.86	1.71
□ 12	19/25	.0185	.093	2.36	6530	19.86	1.71
□ 12	65/30	.0100	.095	2.41	6530	19.86	1.71
12	165/34	.0063	.095	2.41	6530	31.58	1.71
10	37/26	.0167	.115	2.92	10380	31.58	1.08
10	65/28	.0126	.120	2.95	10380	31.58	1.08
10	105/30	.0099	.118	2.95	10380	31.58	1.08

+++ AWG 10 thru 30 per UL subject 13.

□ Belden is in the process of standardizing the stranded conductors used in the production of all Belden® products. This standardization is based on standard industry practices. The preferred standardized constructions are marked with an □.