

Solid and Stranded Conductor AWG Chart

AWG	Construction	Stranding	Nominal Diameter		Circular Area		Maximum DC Resistance	
			Inches	mm	cmils	mm ²	Ohms/1000'	Ohms/ Km
4	Solid	1	0.2043	5.190	41740	21.12	0.249	0.815
4	Stranded	259/28	0.2650	6.720	41119	20.80		
5	Solid	1	0.1819	4.620	33090	16.75	0.313	1.028
6	Solid	1	0.1620	4.110	26244	13.30	0.395	1.290
6	Stranded	133/27	0.2130	5.410	26818	13.60		
7	Solid	1	0.1443	3.670	20820	10.54	0.468	1.634
8	Solid	1	0.1285	3.260	16512	8.37	0.628	2.061
8	Stranded	169/30	0.1650	4.190	16900	8.51		
9	Solid	1	0.1144	2.910	13090	6.62	0.792	2.599
10	Solid	1	0.1019	2.590	10380	5.25	0.999	3.277
10	Stranded	105/30	0.1160	2.946	10530	5.33		
11	Solid	1	0.0907	2.300	8230	4.16	1.26	4.13
12	Solid	1	0.0808	2.050	6530	3.30	1.59	5.21
12	Stranded	63/30	0.1020	2.590	6331	3.21		
12	Stranded	165/34	0.0950	2.413	6549	3.31		
12	Stranded	259/36	0.1020	2.590	6475	3.28		
13	Solid	1	0.0729	1.830	5190	2.62	2.00	6.57
14	Solid	1	0.0641	1.630	4109	2.08	2.53	8.29
14	Stranded	41/30	0.0740	1.880	4100	2.08		
14	Stranded	105/34	0.0746	1.890	4168	2.11		
14	Stranded	265/38	0.0829	2.110	4256	2.16		
15	Solid	1	0.0571	1.450	3260	1.66	3.18	10.45
16	Solid	1	0.0509	1.290	2581	1.31	4.02	13.17
16	Stranded	40/32	0.0584	1.480	2560	1.30		
16	Stranded	105/36	0.0592	1.500	2625	1.33		
17	Solid	1	0.0453	1.150	2050	1.04	5.06	16.61
18	Solid	1	0.0403	1.020	1624	0.82	6.39	20.95
18	Stranded	65/36	0.0466	1.180	1625	0.82		
18	Stranded	105/38	0.0521	1.320	1680	0.85		
19	Solid	1	0.0359	0.904	1290	0.65	8.05	26.42
20	Solid	1	0.0320	0.813	1024	0.52	10.2	33.3
20	Stranded	65/38	0.0372	0.945	1040	0.53		
21	Solid	1	0.0285	0.724	812	0.41	12.8	42.0
22	Solid	1	0.0253	0.643	640	0.32	16.1	53.0
22	Stranded	26/36	0.0294	0.747	650	0.33		
23	Solid	1	0.0228	0.574	511	0.26	20.4	66.8
24	Solid	1	0.0201	0.511	404	0.20	25.7	84.2
24	Stranded	10/34	0.0230	0.584	397	0.20		
25	Solid	1	0.0179	0.455	320	0.16	32.4	106.2
26	Solid	1	0.0159	0.404	253	0.13	40.8	133.9
27	Solid	1	0.0142	0.361	202	0.10	51.5	168.9
28	Solid	1	0.0126	0.320	159	0.080	64.9	212.9
29	Solid	1	0.0113	0.287	128	0.065	81.8	268.5
30	Solid	1	0.0100	0.254	100	0.051	103	339
31	Solid	1	0.00900	0.229	79	0.040	130	427
32	Solid	1	0.0080	0.203	64	0.032	164	538
33	Solid	1	0.0071	0.180	50	0.025	207	679
34	Solid	1	0.0063	0.160	39.6	0.020	261	856
35	Solid	1	0.0056	0.143	31.5	0.016	329	1079
36	Solid	1	0.0050	0.127	25	0.013	415	1361
37	Solid	1	0.0045	0.113	19.8	0.010	523	1716
38	Solid	1	0.0040	0.101	15.7	0.008	660	2164
39	Solid	1	0.0035	0.090	12.5	0.006	832	2726
40	Solid	1	0.0031	0.080	9.89	0.005	1049	3441

Stranded Wire Ampacity Chart

G Psacharopoulos



Stranded Wire Ampacity Chart:

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