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AWG WIRE GAUGE QUICK REFERENCE CHART										
AWG	Diameter		Turns of wire*		Area		Copper resistance		IEC copper wire ampacity with 60/75 90°C raceway (A)	Approximate stranded metric equivalents
	(inch)	(mm)	(inch)	(mm)	(cmil)	(mm²)	(Ohm/1000ft)	(Ohm/km)		
0000 (4/0)	0.48	11.684	217	0.856	212	107	0.1608	0.0490	195/230/280	
000 (3/0)	0.4096	10.404	244	0.961	168	85	0.2028	0.0618	165/200/225	
00 (2/0)	0.3648	9.268	274	1.08	133	67.4	0.2527	0.0779	145/175/195	
0 (1/0)	0.3249	8.252	309	1.21	106	53.5	0.3239	0.0997	125/150/170	
1	0.2893	7.348	346	1.36	83.7	42.4	0.4086	0.1239	110/130/150	
2	0.2576	6.544	388	1.53	66.4	33.6	0.5127	0.1563	95/115/130	
3	0.2294	5.827	436	1.72	52.6	26.7	0.6465	0.197	85/100/110	1960.4
4	0.2043	5.189	489	1.93	41.7	21.2	0.8152	0.2485	75/85/95	
5	0.1819	4.621	55	2.16	33.1	16.8	1.028	0.3133		1260.4
6	0.162	4.115	617	2.43	26.3	13.3	1.286	0.3951	55/65/75	
7	0.1443	3.655	693	2.73	20.9	10.5	1.634	0.4982		890.4
8	0.1295	3.284	778	3.06	16.5	8.37	2.061	0.6282	40/50/55	
9	0.1144	2.906	874	3.44	13.1	6.63	2.589	0.7921		840.3
10	0.1019	2.588	981	3.86	10.4	5.26	3.277	0.9989	30/35/40	
11	0.0907	2.305	11	4.34	8.23	4.17	4.132	1.26		560.3
12	0.0808	2.053	124	4.87	6.53	3.31	5.211	1.588	25/25/30(20)	
13	0.072	1.828	139	5.47	5.18	2.62	6.571	2.003		500.25
14	0.0641	1.633	156	6.14	4.11	2.08	8.285	2.525	20/20/25 (15)	
15	0.0571	1.45	175	6.89	3.26	1.66	10.45	3.194		300.25
16	0.0508	1.291	197	7.75	2.58	1.31	13.17	4.016	---/18(10)	
17	0.0453	1.15	221	8.7	2.05	1.04	16.61	5.064		320.2
18	0.0403	1.024	249	9.77	1.62	0.823	20.95	6.385	---/14 (7)	
19	0.0359	0.912	279	11	1.29	0.653	26.42	8.051		240.2
20	0.032	0.812	313	12.3	1.02	0.518	33.31	10.15		160.2
21	0.0285	0.725	351	13.8	0.81	0.41	42	12.8		
22	0.0253	0.644	393	15.5	0.643	0.328	52.96	16.14		76.25
23	0.0226	0.573	443	17.4	0.509	0.258	66.79	20.36		
24	0.0201	0.511	497	19.6	0.404	0.205	84.22	25.67		105.702, 300.1
25	0.0179	0.456	559	22	0.32	0.162	106.2	32.37		
26	0.0159	0.402	627	24.7	0.254	0.129	133.9	40.81		76.15
27	0.0142	0.361	704	27.7	0.202	0.102	168.9	51.47		
28	0.0126	0.321	791	31.1	0.16	0.081	212.9	64.9		
29	0.0113	0.286	884	35	0.127	0.0642	269.5	81.83		
30	0.01	0.255	997	39.3	0.101	0.0509	338.6	103.2		10.25, 70.1
31	0.00893	0.227	112	44.1	0.0797	0.0404	428.9	130.1		
32	0.00795	0.202	126	49.5	0.0632	0.032	538.3	164.1		
33	0.00709	0.18	141	55.6	0.0501	0.0254	678.9	206.9		
34	0.0063	0.16	159	62.4	0.0398	0.0201	856	260.9		
35	0.00561	0.143	178	70.1	0.0315	0.016	1079	329		
36	0.005	0.127	200	78.7	0.025	0.0127	1361	414.8		
37	0.00445	0.113	226	88.4	0.0198	0.01	1716	523.1		
38	0.00397	0.101	252	99.3	0.0157	0.00797	2164	659.6		
39	0.00353	0.0897	283	111	0.0125	0.00632	2729	831.8		
40	0.00314	0.0792	318	125	0.00989	0.00501	3441	1048		

\*Turns of wire is on a best-case scenario when winding tightly packed coils with no insulation.

# AWG CONDUCTOR SIZE CHART



AWG	Diameter [inches]	Diameter [mm]	Area [mm²]	Resistance [Ohms / 1000 ft]	Resistance [Ohms / km]	Max Current [Amperes]	Max Frequency for 100% skin depth
0000 (4/0)	0.46	11.684	107	0.049	0.16072	302	125 Hz
0000 (3/0)	0.4096	10.40084	85	0.0618	0.202704	239	160 Hz
00 (2/0)	0.3648	9.26582	67.4	0.0779	0.255512	190	200 Hz
0 (1/0)	0.3249	8.25246	53.5	0.0983	0.322424	150	250 Hz
1	0.2893	7.34822	42.4	0.1239	0.406392	119	325 Hz
2	0.2576	6.54304	33.6	0.1563	0.512664	94	410 Hz
3	0.2294	5.82676	26.7	0.197	0.64616	75	500 Hz
4	0.2043	5.18922	21.2	0.2485	0.81508	60	650 Hz
5	0.1819	4.62026	16.8	0.3133	1.027624	47	810 Hz
6	0.162	4.1148	13.3	0.3951	1.299828	37	1100 Hz
7	0.1443	3.65522	10.5	0.4982	1.634096	30	1300 Hz
8	0.1295	3.2639	8.37	0.6282	2.060496	24	1650 Hz
9	0.1144	2.90576	6.63	0.7921	2.598088	19	2050 Hz
10	0.1019	2.58826	5.26	0.9989	3.276392	15	2600 Hz
11	0.0907	2.30378	4.17	1.26	4.1328	12	3200 Hz
12	0.0808	2.05232	3.31	1.588	5.20664	9.3	4150 Hz
13	0.072	1.8288	2.62	2.003	6.56984	7.4	5300 Hz
14	0.0641	1.62814	2.08	2.525	8.262	5.9	6700 Hz
15	0.0571	1.45034	1.65	3.184	10.44352	4.7	8250 Hz
16	0.0508	1.29032	1.31	4.016	13.17248	3.7	11 k Hz
17	0.0453	1.15062	1.04	5.064	16.60992	2.9	13 k Hz
18	0.0403	1.02362	0.823	6.385	20.9428	2.3	17 kHz
19	0.0359	0.91186	0.653	8.051	26.40728	1.8	21 kHz
20	0.032	0.8128	0.518	10.15	33.292	1.5	27 kHz
21	0.0285	0.7239	0.41	12.8	41.984	1.2	33 kHz
22	0.0254	0.64516	0.326	16.14	52.9392	0.92	42 kHz
23	0.0226	0.57404	0.258	20.36	66.7908	0.729	53 kHz
24	0.0201	0.51054	0.205	25.67	84.1976	0.577	68 kHz
25	0.0179	0.45466	0.162	32.37	106.1796	0.457	85 kHz
26	0.0159	0.40386	0.129	40.81	133.8568	0.361	107 kHz
27	0.0142	0.36068	0.102	51.47	168.8216	0.288	130 kHz
28	0.0126	0.32004	0.081	64.9	212.872	0.226	170 kHz
29	0.0113	0.28702	0.0642	81.83	268.4024	0.182	210 kHz
30	0.01	0.254	0.0509	103.2	338.496	0.142	270 kHz
31	0.00893	0.22806	0.0404	130.1	426.728	0.113	340 kHz
32	0.008	0.2032	0.032	164.1	538.248	0.081	430 kHz
33	0.0071	0.18034	0.0254	206.9	678.632	0.072	540 kHz
34	0.0063	0.16002	0.0201	260.9	855.752	0.066	680 kHz
35	0.0056	0.14224	0.016	329	1079.12	0.044	870 kHz
36	0.005	0.127	0.0127	414.8	1360	0.035	1100 kHz
37	0.0045	0.1143	0.01	523.1	1715	0.0289	1350 kHz
38	0.004	0.1016	0.00797	659.6	2163	0.0228	1750 kHz
39	0.0035	0.0889	0.00632	831.8	2729	0.0175	2250 kHz
40	0.0031	0.07874	0.00501	1048	3440	0.0137	2900 kHz

15 KV, 133% INSULATION LEVEL 220 MILS, COPPER WIRE SHIELD, PVC JACKETED									
Conduct or Size AWG/KC mil	Strand	Thickness in mils		Approximate diameters, inches			Approx. Net Wgt. lb./1000 ft.	Amperes (A)	
		Insulation	Jacket	Over Insulation shield	Overall	Burial Duct.		Conduit in air	
COPPER CONDUCTOR									
2	7	210	70	0.79	0.86	1.08	630	155	150
1/0	19	210	70	0.87	0.92	1.14	760	200	195
2/0	19	210	70	0.91	0.96	1.18	870	230	225
3/0	19	210	70	0.96	1.01	1.23	1010	260	260
4/0	19	210	70	1.02	1.08	1.3	1190	295	295
250	37	210	70	1.08	1.14	1.35	1360	325	330
350	37	210	70	1.18	1.24	1.47	1730	390	395
500	37	210	70	1.31	1.37	1.6	2270	465	480
750	61	210	100	1.5	1.56	1.79	3260	565	582
1000	61	210	100	1.65	1.73	2.02	4160	640	675

15 KV, 133% INSULATION LEVEL 220 MILS, COPPER WIRE SHIELD, PVC JACKETED										
Conduct or Size AWG/KC mil	Strand	Thickness in mils		Approximate diameters, inches			Approx. Net Wgt. lb./1000 ft.	Amperes (A)		
		Insulation	Jacket	Over Insulation shield	Overall	Cable Tray		Conduit in air		
COPPER CONDUCTOR										
2	7	210	70	0.79	0.86	1.08	700	-	165	60
1/0	19	210	70	0.87	0.92	1.14	870	290	215	215
2/0	19	210	70	0.91	0.96	1.18	930	335	245	255
3/0	19	210	70	0.96	1.01	1.23	1070	385	275	294
4/0	19	210	70	1.02	1.08	1.3	1250	445	315	330
250	37	210	70	1.08	1.14	1.35	1420	495	345	365
350	37	210	70	1.18	1.24	1.47	1800	610	415	444
500	37	210	70	1.31	1.37	1.6	2260	765	500	532
750	61	210	100	1.5	1.56	1.79	3360	990	610	655
1000	61	210	100	1.65	1.73	2.02	4290	1185	690	753





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