

*Table 13-74*

Cross-sections of electrical conductors.

Comparison between AWG and VDE standards

VDE mm <sup>2</sup>	American Wire Gauge (AWG)					
	AWG	mm <sup>2</sup>	Cross-sections		Diameter <sup>1)</sup>	
			sq. in.	cir. mils	mm	inches
150	000 000 = 6/0	170.50	0.2641	336 400	14.73	0.5800
120	00 000 = 5/0	135.35	0.2094	266 773	13.12	0.5165
95	0 000 = 4/0	107.21	0.1662	211 600	11.68	0.4600
—	000 = 3/0	85.01	0.1318	167 772	10.40	0.4096
70	00 = 2/0	67.43	0.1045	133 079	9.27	0.3648
50	0 = 1/0	53.52	0.0829	105 625	8.25	0.3249
—	1	42.41	0.0657	83 694	7.35	0.2893
35	2	33.62	0.0521	66 358	6.54	0.2576

25	3	26.66	0.0413	52 624	5.83	0.2294
—	4	21.15	0.0328	41 738	5.19	0.2043
16	5	16.77	0.0260	33 088	4.62	0.1819
—	6	13.30	0.0206	26 244	4.11	0.1620
10	7	10.55	0.0163	20 822	3.66	0.1443
—	8	8.37	0.0130	16 512	3.26	0.1285
6	9	6.63	0.0103	13 087	2.91	0.1144
—	10	5.26	0.0081	10 384	2.59	0.1019
4	11	4.17	0.0065	8 226	2.30	0.0907
—	12	3.31	0.0051	6 529	2.05	0.0808
2.5	13	2.63	0.0041	5 184	1.83	0.0720
—	14	2.08	0.0032	4 109	1.63	0.0641
1.5	15	1.65	0.0026	3 260	1.45	0.0571
—	16	1.31	0.0020	2 581	1.29	0.0508
1	17	1.04	0.0016	2 052	1.15	0.0452
0.75	18	0.82	0.0013	1 624	1.02	0.0403
—	19	0.65	0.0010	1 289	0.91	0.0359
0.50	20	0.52	0.0008	1 024	0.81	0.0320

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## Conversion of circular mils into square millimetres and square inches

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MCM	sq. in.	mm <sup>2</sup>	MCM	sq. in.	mm <sup>2</sup>
50	0.0393	25.3	550	0.4320	279.8
100	0.0785	50.7	600	0.4712	304.0
150	0.1178	76.0	650	0.5105	329.4
200	0.1571	101.3	700	0.5498	354.7
250	0.1063	126.7	750	0.5890	380.0
300	0.2356	152.0	800	0.6283	406.3
350	0.2749	177.3	850	0.6676	430.7
400	0.3142	202.7	900	0.7069	456.0
450	0.3534	228.0	950	0.7461	481.4
500	0.3927	253.4	1 000	0.7854	506.7

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1 circular mil (MCM) is the cross-section area of a wire of 1 mil diameter.