

Wire Cross Sections, Metric Equivalent and Wire Diameters

Section mm ²	Section AWG	Section (circ. Mils)	Stranding (typical)	Wire dia., mm	Wire dia., in.
0.02	34	39.75	-	0.16	0.0063
0.032	32	63.21	-	0.201	0.008
0.06	30	100.5	-	0.27	0.012
0.089	28	159.8	-	0.38	0.015
0.141	26	254.1	7	0.53	0.021
0.227	24	404.0	7	0.58	0.023
0.355	22	642.4	7	0.76	0.030
0.563	20	1022	7	0.97	0.038
0.811	18	1624	7	1.20	0.048
1.433	16	2583	7	1.52	0.060
1.970	14	4107	19	1.85	0.073
3.090	12	6530	19	2.36	0.093
4.740	10	10380	37	2.92	0.115
7.820	8	16510	19	3.69	0.145
13.300	6	26520	19	4.12	0.162
21.100	4	41740	1	5.19	0.204
33.600	2	66379	1	6.55	0.257
42.350	1	83690	1	7.34	0.289
52.000	0	105500	1	8.25	0.324
67.400	00	133100	-	9.27	0.364
85.000	000	167800	-	10.40	0.410
107.00	0000	211600	-	11.64	0.460
127.00	250MCM	251000	-	-	-
150.00	300MCM	296500	-	-	-
185.00	400MCM	365700	-	-	-
240.00	500MCM	474400	-	-	-

Note: the values in this table are given as a guide only. Actual diameters may be different depending on stranding and other construction details.

Resistors Colour Codes

Number	Colour
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Grey
9	White