

Bristish and US Dimensions for Cables and Leads

According to US regulations the dimensions of copper conductors for power and data transmission purpose are usually expressed in AWG Nos*. The corresponding values are:

AWG/KCMIL No.	Diameter section mm	Cross geometric (mm ²)	Conductor resistance (Ω/km)
500	17.96	253	0.07
350	15.03	177	0.10
250	12.70	127	0.14
(4/0)	11.68	107.2	0.18
(3/0)	10.40	85.0	0.23
(2/0)	9.27	67.5	0.29
(1/0)	8.25	53.5	0.37
1	7.35	42.4	0.47
2	6.54	33.6	0.57
4	5.19	21.2	0.91
6	4.12	13.3	1.44
8	3.26	8.37	2.36
10	2.59	5.26	3.64
12	2.05	3.31	5.41
14	1.63	2.08	8.79
16	1.29	1.31	14.7
18	1.024	0.823	23.0
20	0.813	0.519	34.5
22	0.643	0.324	54.8
24	0.511	0.205	89.2
26	0.405	0.128	146
28	0.320	0.0804	232
30	0.255	0.0507	350
32	0.203	0.0324	578
34	0.160	0.0200	899
36	0.127	0.0127	1426
38	0.102	0.00811	2255
40	0.079	0.00487	3802
42	0.064	0.00317	5842
44	0.051	0.00203	9123

*AWG = American Wire Gauge (American scale unit for wire cross section)