

AWG table

America Wire Gauge



composition of conductors		conductor area	conductor diameter Ø	conductor resistance	conductor weight	common in the metric system
n x AWG	n x cond.-Ø	mm ²	mm	Ohm/km	kg/km	mm ²
36						
solid	solid	0,013	0,127	1460,0	0,116	
7/44	7x0,05	0,014	0,152	1271,0	0,125	
34						
solid	solid	0,020	0,160	918,0	0,178	
7/42	7x0,064	0,022	0,192	777,0	0,196	
32						
solid	solid	0,032	0,203	571,0	0,284	
7/40	7x0,078	0,034	0,203	538,0	0,302	
19/44	19x0,05	0,037	0,229	448,0	0,329	
30						
solid	solid	0,051	0,254	365,0	0,45	
7/38	7x0,102	0,057	0,305	339,0	0,507	
19/42	19x0,064	0,061	0,305	286,7	0,543	
28						
solid	solid	0,080	0,330	232,0	0,71	
7/36	7x0,127	0,087	0,381	213,0	0,774	0.09 mm²
19/40	19x0,078	0,091	0,406	186,0	0,81	
27						
solid	solid	0,102	0,361	174,0	0,921	
7/35	7x0,142	0,111	0,457	179,0	0,988	
26						
solid	solid	0,128	0,409	143,0	1,14	
10/36	10x0,127	0,127	0,533	137,0	1,13	0.14 mm²- 0.15 mm²
19/38	19x0,102	0,155	0,508	113,0	1,38	
7/34	7x0,160	0,141	0,483	122,0	1,25	
24						
solid	solid	0,205	0,511	89,4	1,82	
7/32	7x0,203	0,227	0,610	76,4	2,02	0.22 mm²- 0.25 mm²
10/34	10x0,160	0,201	0,582	85,6	1,79	
19/36	19x0,127	0,241	0,610	69,2	2,14	
41/40	41x0,078	0,196	0,582	84,0	1,74	
22						
solid	solid	0,324	0,643	55,3	2,88	
7/30	7x0,254	0,355	0,762	48,4	3,16	0.34 mm²
19/34	19x0,160	0,382	0,787	45,1	3,4	
26/36	26x0,127	0,330	0,762	52,3	2,94	
21						
solid	solid	0,410	0,724	43,4	3,71	
28/34	28x0,150	0,495	0,923	39,0	4,45	0.50 mm²
20						
solid	solid	0,519	0,813	34,6	4,61	
7/28	7x0,320	0,562	0,965	33,8	5,0	
10/30	10x0,254	0,507	0,889	33,9	4,51	0.75 mm²
19/32	19x0,203	0,615	0,940	28,3	5,47	
26/34	26x0,160	0,523	0,914	33,0	4,65	
41/36	41x0,127	0,520	0,914	32,9	4,63	
18						
solid	solid	0,823	1,020	21,8	7,32	
7/26	7x0,404	0,897	1,219	19,2	7,98	
16/30	16x0,254	0,811	1,194	21,3	7,22	1.00 mm²
19/30	19x0,254	0,963	1,245	17,9	8,57	
41/34	41x0,160	0,824	1,194	20,9	7,33	
65/36	65x0,127	0,823	1,194	21,0	7,32	

composition of conductors		conductor area	conductor diameter Ø	conductor resistance	conductor weight	common in the metric system
n x AWG	n x cond.-Ø	mm ²	mm	Ohm/km	kg/km	mm ²
16						
solid	solid	1,310	1,290	13,7	11,66	1.25 mm²- 1.50 mm²
7/24	7x0,511	1,440	1,524	12,0	12,81	
65/34	65x0,160	1,310	1,499	13,2	11,65	
26/30	26x0,254	1,317	1,499	13,1	11,72	
19/29	19x0,287	1,229	1,473	14,0	10,94	
105/36	105x0,127	1,330	1,499	13,1	11,84	
14						
solid	solid	2,080	1,630	8,6	18,51	2.50 mm²
7/22	7x0,643	2,238	1,854	7,6	19,92	
19/27	19x0,361	1,945	1,854	8,9	17,31	
41/30	41x0,254	2,078	1,854	8,3	18,49	
105/34	105x0,160	2,111	1,854	8,2	18,79	
12						
solid	solid	3,31	2,05	5,4	29,46	4.00 mm²
7/20	7x0,813	3,63	2,438	4,8	32,30	
19/25	19x0,455	3,09	2,369	5,6	27,50	
65/30	65x0,254	3,292	2,413	5,7	29,29	
165/34	165x0,160	3,316	2,413	5,2	29,51	
10						
solid	solid	5,26	2,59	3,4	46,81	6.00 mm²
37/26	37x0,404	4,74	2,921	3,6	42,18	
49/27	49x0,363	5,068	2,946	3,6	45,10	
105/30	105x0,254	5,317	2,946	3,2	47,32	
8						
49/25	49x0,455	7,963	3,734	2,2	70,87	10.00 mm²
133/29	133x0,287	8,604	3,734	2,0	76,57	
655/36	655x0,127	8,297	3,734	2,0	73,84	
6						
133/27	133x0,363	13,764	4,676	1,5	122,49	16.00 mm²
259/30	259x0,254	13,123	4,674	1,3	116,79	
1050/36	1050x0,127	13,316	4,674	1,3	118,51	
4						
133/25	133x0,455	21,625	5,898	0,80	192,46	25.00 mm²
259/27	259x0,363	26,804	5,898	0,66	238,55	
1666/36	1666x0,127	21,104	5,898	0,82	187,82	
2						
133/23	133x0,574	34,416	7,417	0,50	306,30	35.00 mm²
259/25	259x0,404	33,201	7,417	0,52	295,49	
665/30	665x0,254	33,696	7,417	0,52	299,89	
2646/36	2646x0,127	33,518	7,417	0,52	298,31	
1						
133/22	133x0,643	43,187	8,331	0,40	384,37	50.00 mm²
259/25	259x0,455	42,112	8,331	0,41	374,80	
817/30	817x0,254	41,397	8,331	0,42	368,43	
2109/34	2109x0,160	42,403	8,331	0,41	377,39	

Note: all technical data are without engagement. The specific resistance of copper is assumed to be 0.0178 Ω mm²/m at 20°C room temperature. Data such as area, diameter, resistance and weight are rounded approximations and may vary due to the respective purity grade of the copper, shape of the strands, composition of conductors and differences caused by the respective production technologies. Effective: 08 July 2021