

Solid and Stranded Conductor AWG Chart

AWG Size	Total Strands/ Strand Size	Type	Construction	Nominal Diameter		Circular Area		Approximate Weight		Nom. Break Strength		Maximum DC Resistance	
				Inches	mm	Mils	mm ²	Lbs/ 1000'	Kg/ Km	Lbs	Kg	Ohms/ 1,000'	Ohms/ Km
28	1	S	Solid	0.0126	0.320	159	0.080	0.481	0.72	4.4	1.98	66.4	218
28	7/36	C	7/36	0.0150	0.381	175	0.089	0.546	0.81	4.8	2.18	63.6	209
28	19/40	C	19/40	0.0155	0.394	183	0.093	0.569	0.85	5.0	2.28	62.5	205
28	26/42	B	26/42	0.0147	0.373	163	0.082	0.501	0.75	4.5	2.03	70.6	232
28	36/44	RB	2 x 18/44	0.0141	0.358	144	0.073	0.467	0.69	4.0	1.80	85.5	280
28	40/44	B	40/44	0.0146	0.371	160	0.081	0.494	0.74	4.4	2.00	73.3	240
28	65/46	B	65/46	0.0146	0.371	160	0.081	0.497	0.74	4.4	2.00	71.4	234
28	66/46	RB	3 x 22/46	0.0188	0.478	163	0.082	0.530	0.79	4.5	2.03	73.8	242
26	1	S	Solid	0.0159	0.404	253	0.13	0.765	1.1	7.0	3.15	42.1	138
26	7/34	C	7/34	0.0189	0.480	278	0.14	0.866	1.3	7.6	3.46	39.7	130
26	10/36	B	10/36	0.0183	0.465	250	0.13	0.772	1.2	6.9	3.12	44.1	145
26	19/38	C	19/38	0.0200	0.508	304	0.15	0.947	1.4	8.4	3.79	37.0	121
26	26/40	B	26/40	0.0183	0.465	250	0.13	0.772	1.2	6.9	3.12	45.2	148
26	28/40	RB	7 x 4/40	0.0208	0.528	269	0.14	0.873	1.3	7.4	3.36	44.1	145
26	41/42	B	41/42	0.0185	0.470	256	0.13	0.790	1.2	7.0	3.20	44.8	147
26	64/44	RB	4 x 16/44	0.0203	0.516	256	0.13	0.829	1.2	7.0	3.19	48.1	158
26	65/44	B	65/44	0.0186	0.472	260	0.13	0.802	1.2	7.2	3.24	45.1	148
26	66/44	RB	3 x 22/44	0.0206	0.523	264	0.13	0.855	1.3	7.3	3.29	46.6	153
26	105/46	RB	3 x 35/46	0.0204	0.518	259	0.13	0.843	1.3	7.1	3.23	46.4	152
24	1	S	Solid	0.0201	0.511	404	0.20	1.22	1.8	11.0	5.04	26.2	85.9
24	7/32	C	7/32	0.0240	0.610	448	0.23	1.40	2.1	12.3	5.59	24.5	80.2
24	10/34	B	10/34	0.0230	0.584	397	0.20	1.23	1.8	10.9	4.95	27.5	90.3
24	16/36	B	16/36	0.0231	0.587	400	0.20	1.24	1.8	11.0	4.99	27.5	90.4
24	19/36	C	19/36	0.0250	0.635	475	0.24	1.48	2.2	13.1	5.92	23.4	76.8
24	41/40	B	41/40	0.0229	0.582	394	0.20	1.22	1.8	10.8	4.91	28.7	94.1
24	42/40	B	42/40	0.0232	0.589	404	0.20	1.25	1.9	11.1	5.03	28.0	91.8
24	65/42	B	65/42	0.0233	0.592	406	0.21	1.25	1.9	11.2	5.07	28.3	92.7
24	100/44	RB	2 x 50/44	0.0254	0.645	400	0.20	1.30	1.9	11.0	4.99	30.8	101
24	105/44	RB	3 x 35/44	0.0260	0.660	420	0.21	1.36	2.0	11.5	5.24	29.3	96.1
24	105/44	RB	7 x 15/44	0.0260	0.660	420	0.21	1.36	2.0	11.5	5.24	29.3	96.1
22	1	S	Solid	0.0253	0.643	640	0.32	1.94	2.9	17.6	7.98	16.6	54.4
22	7/30	C	7/30	0.0300	0.762	700	0.35	2.18	3.3	19.2	8.73	15.6	51.1
22	16/34	B	16/34	0.0291	0.739	635	0.32	1.96	2.9	17.5	7.92	17.2	56.4
22	19/34	C	9/34	0.0315	0.800	754	0.38	2.35	3.5	20.7	9.40	14.6	48.0
22	26/36	B	26/36	0.0294	0.747	650	0.33	2.01	3.0	17.9	8.10	17.0	55.6
22	66/40	B	66/40	0.0291	0.739	634	0.32	1.96	2.9	17.4	7.91	17.8	58.4
22	66/40	RB	2 x 33/40	0.0320	0.813	634	0.32	2.06	1.1	17.4	7.91	18.7	61.4
22	66/40	RB	3 x 22/40	0.0320	0.813	634	0.33	2.06	3.1	17.4	7.91	18.7	61.4
22	150/44	RB	3 x 50/44	0.0311	0.790	600	0.30	1.94	2.9	16.5	7.48	20.5	67.3
22	154/44	RB	7 x 22/44	0.0315	0.800	616	0.31	2.00	3.0	16.9	7.68	20.0	65.6
22	168/44	RB	7 x 24/44	0.0329	0.836	672	0.34	2.18	3.2	18.5	8.38	18.3	60.1
20	1	S	Solid	0.0320	0.813	1024	0.52	3.10	4.6	28.1	12.80	10.3	33.9
20	7/28	C	7/28	0.0378	0.960	1111	0.56	3.32	5.2	30.5	13.90	9.77	32.0
20	10/30	B	10/30	0.0365	0.927	1000	0.51	3.09	4.6	27.5	12.50	10.8	35.4
20	19/32	C	19/32	0.0400	1.016	1216	0.62	3.79	5.6	33.4	15.20	9.01	29.6

B – Bunch stranded wire. Wires are twisted without a geometric relationship to each other.

C – Concentric stranded wire. Each layer of the stranding has all strands in the same direction and position.

RB – Rope construction with Bunch stranded groups. Similar to concentric for the groups of strands.

RC – Rope construction with Concentric stranded groups. Similar to concentric stranding for both the final stranding and each group.

S – Solid wires.

The maximum resistance values are for the wire as a single conductor. Additional allowances have to be made when the wires are cabled into a multiconductor cable.