

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
20	20/33	B	20/33	0.0367	0.932	1008	0.51	3.11	4.6	27.7	32.00	10.8	35.4
20	26/34	B	26/34	0.0371	0.942	1032	0.52	3.19	4.7	28.4	12.90	10.6	34.7
20	41/36	B	41/36	0.0370	0.940	1025	0.52	3.17	4.7	28.2	12.80	10.8	35.3
20	42/36	RB	7 x 6/36	0.0412	1.046	1050	0.53	3.41	5.1	28.9	33.10	11.0	36.1
20	65/38	B	65/38	0.0372	0.945	1040	0.53	3.21	1.8	28.6	33.00	10.7	35.1
20	104/40	B	104/40	0.0365	0.927	999	0.51	3.09	4.6	27.5	32.50	11.3	37.1
20	105/40	RB	7 x 15/40	0.0404	1.026	1909	0.51	3.27	4.9	27.7	12.60	11.8	38.5
20	154/42	RB	7 x 22/42	0.0394	1.001	963	0.49	3.12	4.0	26.5	2.00	12.5	41.1
20	266/44	RB	7 x 38/44	0.0414	1.05	1004	0.54	3.45	5.1	29.2	13.30	11.6	38.0
18	1	S	Solid	0.0403	1.02	1624	0.82	4.92	7.3	44.6	20.30	6.51	21.4
18	7/26	C	7/26	0.0477	1.21	1770	0.90	5.52	8.2	48.6	22.10	6.19	20.3
18	10/28	B	10/28	0.0460	1.17	1588	0.80	4.90	7.3	43.6	19.80	6.77	22.2
18	16/30	B	16/30	0.0462	1.17	1600	0.81	4.94	7.4	44.0	20.00	6.75	22.1
18	19/30	C	19/30	0.0500	1.27	1900	0.96	5.92	8.8	52.2	23.70	5.74	18.8
18	32/33	B	32/33	0.0464	1.18	1613	0.82	4.98	7.4	44.3	20.10	6.75	22.1
18	41/34	B	41/34	0.0466	1.18	1627	0.82	5.02	7.5	44.7	20.30	6.71	22.0
18	63/36	RB	7 x 9/36	0.0504	1.28	1575	0.80	5.11	7.6	43.3	19.60	7.34	24.1
18	65/36	B	65/36	0.0466	1.18	1625	0.82	5.02	7.5	44.7	20.30	6.78	22.2
18	105/38	RB	7 x 15/38	0.0521	1.32	1680	0.85	5.44	8.1	46.2	20.90	6.96	22.8
18	168/40	RB	7 x 24/40	0.0510	1.30	1615	0.84	5.24	7.8	44.4	20.10	7.35	24.1
18	259/42	RB	7 x 37/42	0.0511	1.30	1619	0.82	5.24	7.8	44.5	20.20	7.45	24.4
18	413/44	RB	7 x 59/44	0.0516	1.31	1652	0.84	5.35	8.0	45.4	20.60	7.45	24.4
16	1	S	Solid	0.0508	1.29	2581	1.31	7.81	11.6	70.9	32.20	4.10	13.5
16	7/24	C	7/24	0.0603	1.53	2828	1.43	8.82	13.1	71.7	35.30	3.85	12.6
16	16/28	B	16/28	0.0582	1.48	2540	1.29	7.84	11.7	69.8	31.70	4.23	33.9
16	19/29	C	19/29	0.0565	1.44	2426	1.23	7.56	11.3	66.7	30.30	4.48	14.7
16	26/30	B	26/30	0.0589	1.50	2600	1.32	8.03	11.9	71.5	32.40	4.15	33.6
16	40/32	B	40/32	0.0584	1.48	2560	1.30	7.90	11.8	70.4	31.90	4.24	13.9
16	42/32	RB	7 x 6/32	0.0659	1.67	2688	1.36	8.71	13.0	73.9	33.50	4.24	13.9
16	50/33	B	50/33	0.0580	1.47	2521	1.28	7.78	11.6	69.3	31.40	4.32	14.2
16	65/34	B	65/34	0.0587	1.49	2580	1.31	7.96	11.8	70.9	32.20	4.23	13.9
16	105/36	B	105/36	0.0592	1.50	2625	1.33	8.11	12.1	72.2	32.70	4.20	13.8
16	105/36	RB	7 x 15/36	0.0651	1.65	2625	1.33	8.51	12.7	72.2	32.70	4.41	14.5
16	168/38	RB	7 x 24/38	0.0659	1.67	2688	1.36	8.71	13.0	73.9	33.50	4.35	14.3
16	259/40	RB	7 x 37/40	0.0634	1.61	2489	1.26	8.07	12.0	68.4	31.00	4.77	15.6
16	264/40	RB	4 x 66/40	0.0640	1.63	2537	1.29	8.23	12.2	69.7	31.60	4.68	15.3
16	280/40	RB	7 x 40/40	0.0659	1.67	2691	1.36	8.73	13.0	74.0	33.60	4.41	14.5
16	665/44	RB	7 x 95/44	0.0655	1.66	2660	1.35	8.62	12.8	73.1	33.20	4.63	15.2
16	714/44	RB	7 x 3 x 34/44	0.0741	1.88	2856	1.45	9.72	14.5	78.5	35.60	4.53	14.9
14	1	S	Solid	0.0641	1.63	4109	2.08	10.9	16.2	91.4	41.50	3.51	11.5
14	7/22	C	7/22	0.0759	1.93	4461	2.27	14.0	20.8	123.0	55.90	2.44	8.01
14	7/22	C	7/22	0.0759	1.93	4481	2.27	11.9	17.7	101.0	45.80	3.15	10.3
14	19/27	C	19/27	0.0710	1.80	3831	1.94	10.9	16.2	92.5	41.90	3.53	11.6
14	19/27	C	19/27	0.0710	1.80	3831	1.94	11.9	17.8	105.0	47.80	2.83	9.28
14	26/28	B	26/28	0.0742	1.88	4128	2.09	12.7	19.0	113.0	51.50	2.60	8.54
14	26/28	B	26/28	0.0742	1.88	4128	2.09	11.5	17.1	93.0	42.20	3.68	12.1

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.