

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
14	37/30	C	37/30	0.0700	1.78	3700	1.88	11.5	17.2	102	46.10	2.95	9.69
14	37/30	C	37/30	0.0700	1.78	3700	1.88	11.3	16.9	96.2	43.60	3.44	11.30
14	41/30	B	41/30	0.0740	1.88	4100	2.08	12.7	18.8	113.0	51.10	2.63	8.64
14	42/30	RB	7x6/30	0.0823	2.09	4200	2.13	13.6	20.3	115.0	52.40	2.70	8.85
14	49/30	RC	7x7/30	0.0900	2.29	4900	2.48	16.0	23.9	135.0	61.10	2.34	7.66
14	105/34	RB	7x15/34	0.0820	2.08	4168	2.11	13.5	20.1	115.0	52.00	2.75	9.03
14	105/34	B	105/34	0.0746	1.89	4168	2.11	12.9	19.1	115.0	52.00	2.62	8.60
14	168/36	RB	7x24/36	0.0823	2.09	4200	2.13	13.6	20.3	115.0	52.40	2.75	9.04
14	266/38	RB	7x38/38	0.0829	2.11	4256	2.16	13.8	20.5	117.0	53.10	2.75	9.01
14	413/40	RB	7x59/40	0.0800	2.03	3969	2.01	12.9	19.2	109.0	49.50	2.99	9.50
14	441/40	RB	7x3x 21/40	0.0902	2.29	4238	2.15	14.4	21.5	116.0	52.80	2.94	9.64
14	462/40	RB	7x66/40	0.0847	2.15	4440	2.25	14.4	21.4	122.0	55.40	2.67	8.77
14	665/42	RB	7x95/42	0.0819	2.08	4156	2.11	13.5	20.0	114.0	51.80	2.90	9.51
14	1050/44	RB	7x3x50/44	0.0898	2.28	4200	2.13	14.3	21.3	115.0	52.40	3.08	10.10
14	1078/44	RB	7x7x22/44	0.0910	2.31	4312	2.19	14.7	21.8	119.0	53.80	3.00	9.83
14	1176/44	RB	7x3x56/44	0.0951	2.42	4704	2.38	16.0	23.8	129.0	58.70	2.75	9.01
8	1	S	Solid	0.129	3.26	16512	8.37	50.0	74.4	454.0	206.00	0.64	2.10
8	7/16	C	7/16	0.152	3.87	18064	9.15	56.3	83.8	497.0	225.00	0.60	1.98
8	19/21	C	19/21	0.143	3.62	15433	7.82	48.1	71.6	424.0	192.00	0.71	2.32
8	37/24	C	37/24	0.141	3.57	14948	7.58	46.6	69.4	411.0	186.00	0.73	2.39
8	49/25	RC	7x7/25	0.161	4.09	15760	7.96	51.4	76.5	432.0	196.00	0.73	2.40
8	133/29	RB	7x19/29	0.170	4.31	16983	8.61	55.6	82.7	467.0	212.00	0.87	2.21
8	133/29	RC	19x7/29	0.170	4.31	16983	8.61	58.4	86.9	467.0	212.00	0.71	2.32
8	152/30	RB	19x8/30	0.157	3.98	15200	7.70	51.7	77.0	418.0	190.00	0.78	2.57
8	168/30	RB	7x24/30	0.165	4.18	16800	8.51	54.5	81.0	462.0	209.00	0.67	2.21
8	245/32	RB	7x35/32	0.159	4.04	15680	7.95	50.8	75.6	431.0	196.00	0.73	2.38
8	301/33	RB	7x43/33	0.157	3.98	15173	7.69	49.2	73.2	417.0	189.00	0.75	2.47
8	413/34	RB	7x59/34	0.163	4.13	16392	8.31	53.1	79.0	451.0	204.00	0.70	2.30
8	602/36	RB	7x86/36	0.156	3.96	15050	7.63	48.8	72.6	414.0	188.00	0.77	2.52
8	665/35	RB	7x95/36	0.164	4.16	16625	8.43	53.9	80.2	457.0	207.00	0.70	2.28
8	1050/38	RB	7x150/38	0.165	4.18	16800	8.51	54.4	81.0	462.0	209.00	0.70	2.28
8	1666/40	RB	7x7x34/40	0.175	4.46	16010	8.11	54.5	81.1	440.0	200.00	0.78	2.55
8	1715/40	RB	7x7x35/40	0.178	4.52	16481	8.35	56.1	83.5	453.0	206.00	0.76	2.48
6	1	S	Solid	0.162	4.11	26244	13.30	79.4	118.0	721.0	327.00	0.40	1.32
6	7/14	C	7/14	0.192	4.88	28762	14.60	89.7	131.0	791.0	359.00	0.38	1.24
6	19/19	C	19/19	0.180	4.56	24487	12.40	76.3	114.0	673.0	305.00	0.45	1.46
6	37/22	C	37/22	0.186	4.72	23683	12.00	73.9	110.0	651.0	295.00	0.46	1.52
6	49/23	RC	7x7/23	0.203	5.17	25027	12.70	81.9	122.0	688.0	312.00	0.46	1.50
6	133/27	RB	7x19/27	0.213	5.41	26818	13.60	87.8	131.0	737.0	334.00	0.42	1.39
6	133/27	RC	19x7/27	0.213	5.41	26818	13.60	92.2	137.0	737.0	334.00	0.45	1.46
6	259/30	RB	7x37/30	0.205	5.19	25900	13.10	84.0	125.0	712.0	323.00	0.44	1.44
6	427/32	RB	7x61/32	0.210	5.33	27328	13.90	88.6	132.0	751.0	341.00	0.42	1.37
6	665/34	RB	19x35/34	0.206	5.24	26394	13.40	89.8	134.0	726.0	329.00	0.46	1.50
6	665/34	RB	7x95/34	0.206	5.24	26394	13.40	85.5	127.0	726.0	329.00	0.43	1.43
6	1050/36	RB	7x150/36	0.206	5.23	26250	13.30	85.1	127.0	722.0	327.00	0.44	1.45
6	1078/36	RB	7x7x22/36	0.228	5.78	26950	13.70	91.8	137.0	741.0	336.00	0.45	1.48

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.