

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
6	1666/38	RB	7x238/38	0.207	5.27	26656	13.5	86.4	129	733	332.00	0.44	1.44
6	1813/38	RB	7x7x37/38	0.236	6.00	29008	14.7	98.7	147	797	362.00	0.42	1.39
6	2744/40	RB	7x7x56/40	0.225	5.72	26370	13.4	89.8	134	725	329.00	0.47	1.55
6	6517/44	RB	7x7x19/44	0.224	5.68	26068	13.2	89.5	133	717	325.00	0.50	1.64
4	7/12	C	7/12	0.242	6.16	45700	23.2	142	212	1256	570.00	0.24	0.78
4	19/17	C	19/17	0.227	5.75	38990	19.8	122	181	1072	486.00	0.28	0.92
4	37/20	C	37/20	0.224	5.69	37888	19.2	118	176	1042	472.00	0.29	0.94
4	49/21	RC	7x7/21	0.257	6.52	39800	20.2	130	194	1094	496.00	0.29	0.94
4	61/22	C	61/22	0.228	5.78	39045	19.8	121	179	1073	487.00	0.28	0.91
4	133/25	RC	19x7/25	0.269	6.82	42615	21.6	146	218	1171	531.00	0.28	0.93
4	133/25	RC	7x19/25	0.269	6.82	42615	21.6	140	208	1171	531.00	0.27	0.88
4	259/28	RB	7x37/28	0.258	6.54	41119	20.8	133	198	1130	513.00	0.27	0.90
4	259/28	RC	37x7/28	0.265	6.72	41119	20.8	141	210	1130	513.00	0.29	0.95
4	413/30	RB	7x59/30	0.258	6.56	41300	20.9	134	199	1135	515.00	0.27	0.90
4	437/30	RB	19x23/30	0.266	6.75	43700	22.1	149	221	1201	545.00	0.27	0.89
4	1050/34	RB	7x3x50/34	0.283	7.19	41675	21.1	142	211	1146	520.00	0.29	0.95
4	1064/34	RB	19x56/34	0.261	6.63	42230	21.4	144	214	1161	527.00	0.29	0.94
4	1078/34	RB	7x7x22/34	0.287	7.28	42786	21.7	146	217	1176	533.00	0.28	0.92
4	1666/36	RB	7x7x34/36	0.283	7.19	41650	21.1	142	211	1145	519.00	0.29	0.96
4	1672/36	RB	19x88/36	0.260	6.60	41800	21.2	142	212	1149	521.00	0.29	0.95
4	1813/36	RB	7x7x37/36	0.295	7.50	45325	23.0	154	230	1246	565.00	0.27	0.88
3	7/11	C	7/11	0.272	6.91	57585	29.2	180	267	1583	718.00	0.19	0.62
3	19/16	C	19/16	0.254	6.45	49032	24.9	153	227	1348	611.00	0.22	0.73
3	37/19	C	37/19	0.251	6.38	47686	24.2	149	221	1311	595.00	0.23	0.75
3	61/21	C	61/21	0.257	6.52	49547	25.1	154	230	1362	618.00	0.22	0.72
2	7/10	C	7/10	0.306	7.76	72585	36.8	227	337	1998	906.00	0.15	0.49
2	19/15	C	19/15	0.286	7.25	61948	31.4	193	287	1703	772.00	0.18	0.58
2	37/18	C	37/18	0.282	7.17	60091	30.5	187	279	1652	749.00	0.18	0.60
2	49/19	RC	7x7/19	0.323	8.21	63152	32.0	207	308	1736	787.00	0.18	0.60
2	61/20	C	61/20	0.288	7.32	82464	31.7	195	290	1717	779.00	0.17	0.57
2	133/23	RC	7x19/23	0.339	8.61	67931	34.4	222	331	1867	847.00	0.17	0.55
2	133/23	RC	19x7/23	0.339	8.61	67931	34.4	233	347	1867	847.00	0.18	0.58
2	259/26	RB	7x37/26	0.325	8.26	65478	33.2	212	316	1800	816.00	0.17	0.57
2	259/26	RC	37x7/26	0.334	8.48	65478	33.2	225	335	1800	816.00	0.18	0.61
2	637/30	RB	7x7x13/30	0.350	8.88	63700	32.3	217	323	1751	794.00	0.19	0.61
2	665/30	RB	19x35/30	0.328	8.32	66500	33.7	226	337	1828	829.00	0.18	0.59
2	665/30	RB	7x95/30	0.328	8.32	66500	33.7	216	321	1828	829.00	0.17	0.56
2	1666/34	RB	7x7x34/34	0.356	9.05	66124	33.5	225	335	1818	824.00	0.18	0.60
2	2646/36	RB	7x7x54/36	0.357	9.06	66150	33.5	225	335	1818	825.00	0.18	0.60
2	2891/36	RB	7x7x59/36	0.373	9.46	72275	36.6	246	366	1987	901.00	0.17	0.55
2/0	37/15	C	37/15	0.400	10.15	120635	61.1	376	560	3316	1504.00	0.09	0.30
2/0	61/17	C	61/17	0.457	11.61	157419	79.8	191	730	4327	1963.00	0.07	0.23
2/0	133/20	RC	19x7/20	0.480	12.19	136192	69.0	468	697	3714	1698.00	0.09	0.29
2/0	133/20	RC	7x19/20	0.480	12.19	136192	69.0	446	664	3744	1698.00	0.08	0.28
2/0	259/23	RB	7x37/23	0.462	11.74	132287	67.0	429	638	3636	1649.00	0.09	0.28
2/0	259/23	RC	37x7/23	0.475	12.05	132287	67.0	155	677	3636	1649.00	0.09	0.30

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.