

Solid & Stranded Conductor Properties

AWG Size	Total Strands/ Strand Size	Type	STRAND DETAIL		NOMINAL DIAMETER		NOMINAL CROSS SECTION				APPROX. WEIGHT		NOM. BREAK STRENGTH		MAX. DC RESISTANCE	
			Lay-up	Strand Size	Inches	mm	Circ Mils	% Solid	Sq Inches	Sq mm	Lbs/ 1,000'	Kg/ Km	Lbs	Kg	Ohms/ 1,000'	Ohms/ Km
5	3185/40	RB	7 x 7 x 65	/ 40	0.2425	6.160	30,608	92.51%	0.02404	15.51	104	155	841	382	0.4069	1.3350
4	1/4	S	1	/ 4	0.2043	5.189	41,738	100.00%	0.03278	21.15	126	188	1,147	520	0.2534	0.8314
4	7/12	C	7	/ 12	0.2424	6.157	45,700	109.49%	0.03589	23.16	142	212	1,256	570	0.2384	0.7823
4	19/17	C	19	/ 17	0.2265	5.753	38,990	93.41%	0.03062	19.76	122	181	1,072	486	0.2801	0.9191
4	37/20	C	37	/ 20	0.2240	5.690	37,888	90.77%	0.02976	19.20	118	176	1,042	472	0.2873	0.9426
4	49/21	RC	7 x 7	/ 21	0.2565	6.515	39,800	95.36%	0.03126	20.17	130	194	1,094	496	0.2878	0.9444
4	61/22	C	61	/ 22	0.2277	5.784	39,045	93.55%	0.03067	19.79	121	179	1,073	487	0.2775	0.9104
4	133/25	RC	7 x 19	/ 25	0.2685	6.820	42,615	102.10%	0.03347	21.59	140	208	1,171	531	0.2692	0.8832
4	133/25	RC	19 x 7	/ 25	0.2685	6.820	42,615	102.10%	0.03347	21.59	146	218	1,171	531	0.2826	0.9274
4	259/28	RB	7 x 37	/ 28	0.2576	6.543	41,119	98.52%	0.03229	20.84	133	198	1,130	513	0.2745	0.9005
4	259/28	RC	37 x 7	/ 28	0.2646	6.721	41,119	98.52%	0.03229	20.84	141	210	1,130	513	0.2910	0.9548
4	413/30	RB	7 x 59	/ 30	0.2582	6.558	41,300	98.95%	0.03244	20.93	134	199	1,135	515	0.2744	0.9003
4	437/30	RB	19 x 23	/ 30	0.2656	6.746	43,700	104.70%	0.03432	22.14	149	221	1,201	545	0.2723	0.8934
4	1050/34	RB	7 x 3 x 50	/ 34	0.2829	6.186	41,675	99.85%	0.03273	21.12	142	211	1,146	520	0.2890	0.9481
4	1064/34	RB	19 x 56	/ 34	0.2611	6.632	42,300	101.18%	0.03317	21.40	144	214	1,161	527	0.2852	0.9356
4	1078/34	RB	7 x 7 x 22	/ 34	0.2867	6.282	42,786	102.51%	0.03360	21.68	146	217	1,176	533	0.2814	0.9234
4	1666/36	RB	7 x 7 x 34	/ 36	0.2829	6.186	41,650	99.79%	0.03271	21.11	142	211	1,145	519	0.2916	0.9566
4	1672/36	RB	19 x 88	/ 36	0.2598	6.599	41,800	100.15%	0.03283	21.18	142	212	1,149	521	0.2905	0.9532
3	1813/36	RB	7 x 7 x 37	/ 36	0.2951	6.496	45,325	108.59%	0.03560	22.97	154	230	1,246	565	0.2679	0.8791
3	1/3	S	1	/ 3	0.2294	5.827	52,624	100.00%	0.04133	26.67	159	237	1,447	656	0.2011	0.6598
3	7/11	C	7	/ 11	0.2721	6.911	57,585	109.43%	0.04523	29.18	180	267	1,583	718	0.1892	0.6209
3	19/16	C	19	/ 16	0.2540	6.452	49,032	93.17%	0.03851	24.85	153	227	1,348	611	0.2222	0.7291
3	37/19	C	37	/ 19	0.2513	6.383	47,686	90.62%	0.03745	24.16	149	221	1,311	595	0.2291	0.7516
3	49/20	RC	7 x 7	/ 20	0.2880	7.315	50,176	95.35%	0.03941	25.43	164	244	1,379	626	0.2278	0.7474
3	61/21	C	61	/ 21	0.2565	6.515	49,547	94.15%	0.03891	25.11	154	230	1,362	618	0.2202	0.7225
3	133/24	RC	7 x 19	/ 24	0.3015	7.658	53,733	102.11%	0.04220	27.23	176	262	1,477	670	0.2130	0.6987
3	133/24	RC	19 x 7	/ 24	0.3015	6.658	53,733	102.11%	0.04220	27.23	185	275	1,477	670	0.2236	0.7336
3	259/27	RB	7 x 37	/ 27	0.2903	7.374	52,225	99.24%	0.04102	26.46	169	252	1,436	651	0.2157	0.7077
3	259/27	RC	37 x 7	/ 27	0.2982	7.574	52,225	99.24%	0.04102	26.46	180	267	1,436	651	0.2287	0.7504
3	476/30	RB	7 x 68	/ 30	0.2772	7.041	47,600	90.45%	0.03738	24.12	154	230	1,308	594	0.2381	0.7812
3	525/30	RB	7 x 75	/ 30	0.2911	7.394	52,500	99.76%	0.04123	26.60	170	253	1,443	655	0.2159	0.7083
3	1323/34	RB	7 x 7 x 27	/ 34	0.3176	8.067	52,510	99.78%	0.04124	26.61	179	266	1,443	655	0.2293	0.7524
3	1976/36	RB	19 x 104	/ 36	0.2824	7.173	49,400	93.87%	0.03880	25.03	168	250	1,358	616	0.2458	0.8065
3	2100/36	RB	7 x 3 x 100	/ 36	0.3176	8.067	52,500	99.76%	0.04123	26.60	179	266	1,443	655	0.2313	0.7589
3	2107/36	RB	7 x 7 x 43	/ 36	0.3181	8.080	52,675	100.10%	0.04137	26.69	179	267	1,448	657	0.2305	0.7564
3	2156/36	RB	7 x 7 x 44	/ 36	0.3218	8.174	53,900	102.42%	0.04233	27.31	184	273	1,482	672	0.2253	0.7392
2	1/2	S	1	/ 2	0.2593	6.586	66,358	100.00%	0.05212	33.63	201	299	1,824	827	0.1595	0.5233
2	7/10	C	7	/ 10	0.3057	7.765	72,685	109.54%	0.05709	36.83	227	337	1,998	906	0.1499	0.4918
2	19/15	C	19	/ 15	0.2855	7.252	61,948	93.35%	0.04865	31.39	193	287	1,703	772	0.1761	0.5778
2	37/18	C	37	/ 18	0.2821	7.165	60,091	90.56%	0.04720	30.45	187	279	1,652	749	0.1813	0.5950
2	49/19	RC	7 x 7	/ 19	0.3231	8.207	63,152	95.17%	0.04960	32.00	207	308	1,736	787	0.1816	0.5959
2	61/20	C	61	/ 20	0.2880	7.315	62,464	94.13%	0.04906	31.65	195	290	1,717	779	0.1743	0.5718
2	133/23	RC	7 x 19	/ 23	0.3390	8.611	67,931	102.37%	0.05335	34.42	222	331	1,867	847	0.1681	0.5514
2	133/23	RC	19 x 7	/ 23	0.3390	8.611	67,931	102.37%	0.05335	34.42	233	347	1,867	847	0.1765	0.5790
2	259/26	RB	7 x 37	/ 26	0.3251	8.258	65,478	98.67%	0.05143	33.18	212	316	1,800	816	0.1740	0.5708