

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
10	133/31	RC	19 x 7 / 31		0.1335	3.391	10,535	101.46%	0.008274	5.338	36.2	53.9	290.0	131.0	1.143	3.752
10	203/33	RB	7 x 29 / 33		0.1285	3.264	10,233	98.55%	0.008037	5.186	33.20	49.4	281.0	128.0	1.117	3.664
10	259/34	RB	7 x 37 / 34		0.1288	3.272	10,280	99.00%	0.008074	5.209	33.30	49.6	283.0	128.0	1.116	3.660
10	413/36	RB	7 x 59 / 36		0.12910	3.279	10,325	99.44%	0.008109	5.232	33.50	49.8	284.0	129.0	1.120	3.675
10	448/36	RB	7 x 64 / 36		0.1345	3.416	11,200	107.86%	0.008796	5.675	36.30	54.0	308.0	140.0	1.033	3.388
10	658/38	RB	7 x 94 / 38		0.1304	3.312	10,528	101.39%	0.008269	5.335	34.10	50.8	289.0	131.0	1.110	3.641
10	1050/40	RB	7 x 150 / 40		0.1276	3.241	10,091	97.18%	0.007925	5.113	32.70	48.7	277.0	126.0	1.175	3.856
10	1050/40	RB	7 x 3 x 50 / 40		0.1392	3.536	10,091	97.18%	0.007925	5.113	34.40	51.1	277.0	126.0	1.234	4.049
10	1092/40	RB	7 x 3 x 52 / 40		0.142	3.607	10,494	101.06%	0.008242	5.318	35.70	53.2	288.0	131.0	1.187	3.894
10	1666/42	RB	7 x 7 x 34 / 42		0.14140	3.592	10,413	100.28%	0.008178	5.276	35.40	52.7	286.0	130.0	1.215	3.988
9	1/9	S	1 / 9		0.1144	2.906	13,087	100.00%	0.010280	6.632	39.6	58.9	360.0	163.0	0.8079	2.651
9	7/17	C	7 / 17		0.1359	3.452	14,365	109.76%	0.011280	7.279	44.80	66.6	395.0	179.0	0.7603	2.495
9	19/22	C	19 / 22		0.1265	3.213	12,162	92.93%	0.009552	6.163	37.90	56.4	334.0	152.0	0.8995	2.951
9	37/25	C	37 / 25		0.1253	3.183	11,855	90.58%	0.009311	6.007	37.00	55.0	326.0	148.0	0.9215	3.024
9	49/26	RC	7 x 7 / 26		0.1431	3.635	12,388	94.65%	0.009729	6.277	40.60	60.3	341.0	154.0	0.9286	3.047
9	133/30	RC	7 x 19 / 30		0.1500	3.810	13,300	101.62%	0.010450	6.740	43.50	64.8	366.0	166.0	0.8604	2.823
9	133/30	RC	19 x 7 / 30		0.1500	3.810	13,300	101.62%	0.010450	6.740	45.70	68.0	366.0	166.0	0.9035	2.964
9	203/32	RB	7 x 29 / 32		0.1448	3.678	12,992	99.27%	0.010200	6.584	42.10	62.7	357.0	152.0	0.8767	2.877
9	329/34	RB	7 x 47 / 34		0.1452	3.688	13,058	99.78%	0.010260	6.617	42.30	63.0	359.0	163.0	0.8783	2.882
9	525/36	RB	7 x 75 / 36		0.1456	3.698	13,125	100.29%	0.010310	6.651	42.60	63.3	361.0	164.0	0.8812	2.891
9	833/38	RB	7 x 119 / 38		0.1467	3.726	13,328	101.84%	0.010470	6.754	43.20	64.3	366.0	166.0	0.8767	2.876
9	1365/40	RB	7 x 3 x 65 / 40		0.1587	4.031	13,118	100.23%	0.010300	6.647	44.70	66.5	361.0	164.0	0.9493	3.115
9	1470/40	RB	7 x 7 x 30 / 40		0.1647	4.183	14,127	107.94%	0.011100	7.159	48.10	71.6	388.0	176.0	0.8815	2.892
9	3185/44	RB	7 x 7 x 65 / 44		0.1564	3.973	12,740	97.35%	0.010010	6.456	43.30	64.5	350.0	159.0	1.1040	3.328
8	1/8	S	1 / 8		0.1285	3.264	16,512	100.00%	0.012970	8.367	50.00	74.4	454.0	206.0	0.6410	2.103
8	7/16	C	7 / 16		0.1524	3.871	18,064	109.40%	0.014190	9.154	56.30	83.8	497.0	225.0	0.6031	1.979
8	19/21	C	19 / 21		0.1425	3.620	15,433	93.46%	0.012120	7.820	48.10	71.6	424.0	192.0	0.7070	2.320
8	37/24	C	37 / 24		0.1407	3.574	14,948	90.53%	0.011740	7.575	46.60	69.4	411.0	186.0	0.7290	2.392
8	49/25	RC	7 x 7 / 25		0.1611	4.092	15,700	95.08%	0.012330	7.956	51.40	76.5	432.0	196.0	0.7306	2.397
8	133/29	RB	7 x 19 / 29		0.1695	4.305	16,983	102.85%	0.013340	8.606	55.60	82.7	467.0	212.0	0.6723	2.206
8	133/29	RC	19 x 7 / 29		0.1695	4.305	16,983	102.85%	0.013340	8.606	58.40	86.9	467.0	212.0	0.7059	2.316
8	152/30	RB	19 x 8 / 30		0.1566	3.978	15,200	92.05%	0.011940	7.702	51.70	77.0	418.0	190.0	0.7829	2.569
8	168/30	RB	7 x 24 / 30		0.1647	4.183	16,800	101.74%	0.013190	8.513	54.50	81.0	462.0	209.0	0.6746	2.213
8	245/32	RB	7 x 35 / 32		0.1591	4.041	15,680	94.96%	0.012320	7.946	50.80	75.6	431.0	196.0	0.7264	2.383
8	301/33	RB	7 x 43 / 33		0.1565	3.975	15,173	91.89%	0.011920	7.689	49.20	73.2	417.0	189.0	0.7531	2.471
8	413/34	RB	7 x 59 / 34		0.1627	4.133	16,392	99.27%	0.012870	8.306	53.10	79.0	451.0	204.0	0.6996	2.296
8	602/36	RB	7 x 86 / 36		0.1559	3.960	15,050	91.14%	0.011820	7.626	48.80	72.6	414.0	188.0	0.7685	2.521
8	665/36	RB	7 x 95 / 36		0.1638	4.161	16,625	100.68%	0.013060	8.425	53.90	80.2	457.0	207.0	0.6957	2.282
8	1050/38	RB	7 x 150 / 40		0.1647	4.183	16,800	101.74%	0.013190	8.513	54.40	81.1	462.0	209.0	0.6955	2.282
8	1666/40	RB	7 x 7 x 34 / 40		0.1754	4.455	16,010	96.96%	0.012570	8.113	54.50	81.1	440.0	200.0	0.7778	2.552
8	1715/40	RB	7 x 7 x 35 / 40		0.1779	4.519	16,481	99.81%	0.012940	8.352	56.10	83.5	453.0	206.0	0.7556	2.479
7	1/7	S	1 / 7		0.1443	3.665	20,822	100.00%	0.016350	10.550	63.00	93.8	572.0	260.0	0.5079	1.666
7	7/15	C	7 / 15		0.1713	4.351	22,823	109.61%	0.017930	11.570	71.20	106.0	627.0	285.0	0.4780	1.568
7	19/20	C	19 / 20		0.1600	4.064	19,456	93.44%	0.015280	9.859	60.70	90.3	535.0	243.0	0.5595	1.836
7	37/23	C	37 / 23		0.1582	4.018	18,898	90.76%	0.014840	9.576	58.90	87.7	519.0	236.0	0.5754	1.888