

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
32	1/32	S	1 /	32	0.0080	0.2032	64.0000	100.00%	0.0000503	0.03243	0.194	0.288	1.76	0.798	166.2	545.2
32	7/40	C	7 /	40	0.0093	0.2362	67.2700	105.11%	0.0000528	0.03409	0.210	0.312	1.85	0.839	169.6	556.3
32	10/42	B	10 /	42	0.0091	0.2311	62.5000	97.66%	0.0000491	0.03167	0.193	0.287	1.72	0.780	183.7	602.6
32	16/44	B	16 /	44	0.09200	0.2337	64.0000	100.00%	0.0000503	0.03243	0.197	0.294	1.76	0.800	183.1	600.9
32	19/44	C	19 /	44	0.0100	0.2540	76.0000	118.75%	0.0000597	0.03851	0.237	0.352	2.09	0.948	155.7	511.0
32	25/46	B	25 /	46	0.0091	0.2311	61.6230	96.29%	0.0000484	0.03123	0.191	0.285	1.69	0.770	185.6	608.9
32	64/50	B	64 /	50	0.0091	0.2311	62.7260	98.01%	0.0000493	0.03179	0.196	0.291	1.72	0.780	183.1	600.9
31	1/31	S	1 /	31	0.0089	0.2261	79.2100	100.00%	0.0000622	0.04014	0.240	0.357	2.18	0.990	133.9	439.4
31	7/39	C	7 /	39	0.0105	0.26670	85.7500	108.26%	0.0000673	0.04345	0.267	0.398	2.36	1.070	132.0	433.0
31	19/43	C	19 /	43	0.0110	0.2794	91.9600	116.10%	0.0000722	0.0466	0.288	0.428	2.53	1.150	127.5	418.3
30	1/30	S	1 /	30	0.0100	0.254	100.000	100.00%	0.0000785	0.05067	0.303	0.450	2.75	1.250	105.8	347.2
30	7/38	C	7 /	38	0.0120	0.3048	112.000	112.00%	0.000088	0.056750	0.349	0.519	3.08	1.400	100.3	329.2
30	10/40	B	10 /	40	0.0113	0.287	96.100	96.10%	0.0000755	0.0487	0.297	0.442	2.64	1.200	117.5	385.6
30	16/42	B	16 /	42	0.0116	0.2946	100.000	100.00%	0.0000785	0.05067	0.308	0.459	2.75	1.250	114.8	376.6
30	19/42	C	19 /	42	0.0125	0.3175	118.750	118.75%	0.0000933	0.06018	0.370	0.550	3.26	1.480	97.6	320.2
30	25/44	B	25 /	44	0.0116	0.2946	100.000	100.00%	0.0000785	0.05067	0.309	0.459	2.75	1.250	117.2	384.6
30	40/46	B	40 /	46	0.0115	0.2921	98.596	98.60%	0.0000774	0.04996	0.306	0.455	2.71	1.230	116.0	380.6
29	1/29	S	1 /	29	0.0113	0.287	127.690	100.00%	0.0001003	0.064710	0.387	0.575	3.51	1.590	82.68	271.3
29	7/37	C	7 /	37	0.0135	0.3429	141.750	111.01%	0.0001113	0.07183	0.442	0.658	3.90	1.770	78.82	258.6
29	19/41	C	13 /	41	0.0140	0.3556	148.960	116.66%	0.000117	0.07548	0.464	0.690	4.09	1.860	77.12	253.0
29	33/44	RB	3 x 11 /	44	0.0146	0.3708	132.000	103.38%	0.0001037	0.06689	0.428	0.636	3.63	1.650	93.24	305.9
29	51/46	B	51 /	46	0.0129	0.3277	125.710	98.45%	0.0000987	0.0637	0.390	0.581	3.46	1.570	90.97	298.5
29	51/46	RB	3 x 17 /	46	0.0142	0.3607	125.710	98.45%	0.0000987	0.06370	0.410	0.610	3.46	1.570	95.52	313.4
28	1/28	S	1 /	28	0.0126	0.32	158.760	100.00%	0.0001247	0.08045	0.481	0.715	4.36	1.980	66.37	217.8
28	7/36	C	7 /	36	0.0150	0.381	175.000	110.23%	0.0001374	0.08868	0.546	0.812	4.81	2.180	63.56	208.5
28	19/40	C	19 /	40	0.0155	0.3937	182.590	115.01%	0.0001434	0.09253	0.569	0.847	5.02	2.280	62.47	205.0
28	26/42	B	26 /	42	0.0147	0.3734	162.500	102.36%	0.0001276	0.08235	0.501	0.746	4.47	2.030	70.64	231.8
28	36/44	RB	2 x 18 /	44	0.0152	0.3861	144.000	90.70%	0.0001131	0.07297	0.467	0.694	3.96	1.800	85.47	280.4
28	40/44	B	40 /	44	0.0146	0.3708	160.000	100.78%	0.0001257	0.08108	0.494	0.735	4.40	2.000	73.26	240.4
28	65/46	B	65 /	46	0.0146	0.3708	160.220	100.92%	0.0001258	0.08119	0.497	0.740	4.40	2.000	71.38	234.2
28	66/46	RB	3 x 22 /	46	0.0162	0.4115	162.680	102.47%	0.0001278	0.08244	0.530	0.789	4.47	2.030	73.81	242.2
27	1/27	S	1 /	27	0.0142	0.3607	201.640	100.00%	0.0001584	0.10220	0.610	0.908	5.54	2.510	52.17	171.2
27	7/35	C	7 /	35	0.0168	0.4267	219.520	108.87%	0.0001724	0.11120	0.684	1.02	6.03	2.740	50.45	165.5
27	19/39	C	19 /	39	0.0175	0.4445	232.750	115.43%	0.0001828	0.11790	0.726	1.08	6.40	2.900	48.63	159.6
27	51/44	RB	3 x 17 /	44	0.0181	0.4597	204.000	101.17%	0.0001602	0.10340	0.661	0.983	5.61	2.540	60.33	197.9
27	81/46	RB	3 x 27 /	46	0.0180	0.4572	199.660	99.02%	0.0001568	0.10120	0.651	0.968	5.49	2.490	60.14	197.3
26	1/26	S	1 /	26	0.0159	0.4039	252.810	100.00%	0.0001986	0.12810	0.765	1.14	6.95	3.150	42.07	138.0
26	7/34	C	7 /	34	0.0189	0.4801	277.830	109.90%	0.0002182	0.1408	0.866	1.29	7.64	3.460	39.70	130.3
26	10/36	B	10 /	36	0.0183	0.4648	250.000	98.89%	0.0001963	0.1267	0.772	1.15	6.87	3.120	44.06	144.6
26	19/38	C	19 /	38	0.0200	0.508	304.000	120.25%	0.0002388	0.154	0.947	1.41	8.36	3.790	36.96	121.3
26	26/40	B	26 /	40	0.0183	0.4648	249.860	98.83%	0.0001962	0.1266	0.772	1.15	6.87	3.120	45.21	148.3
26	28/40	RB	7 x 4 /	40	0.0208	0.5283	269.080	106.44%	0.0002113	0.1364	0.873	1.30	7.40	3.360	44.08	144.6
26	41/42	B	41 /	42	0.0185	0.4699	256.250	101.36%	0.0002013	0.1299	0.790	1.18	7.04	3.200	44.79	147.0
26	64/44	RB	4 x 16 /	44	0.0203	0.5156	256.000	101.26%	0.0002011	0.1297	0.829	1.23	7.04	3.190	48.08	157.7
26	65/44	B	65 /	44	0.0186	0.4724	260.000	102.84%	0.0002042	0.1318	0.802	1.19	7.15	3.240	45.08	147.9



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