

Wire Charts

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
2/0	427/25	RB	7x61/25	0.470	11.94	136815	69.3	444	660	3761	1706.00	0.08	0.27
2/0	427/25	RC	61x7/25	0.483	12.28	136815	69.3	470	700	3761	1706.00	0.09	0.29
2/0	1323/30	RB	7x7x27/30	0.504	12.80	132300	67.0	450	670	3637	1650.00	0.09	0.30
2/0	1330/30	RB	19x70/30	0.463	11.77	133000	67.4	453	674	3656	1658.00	0.09	0.29
2/0	3325/34	RB	19x7x25/34	0.525	13.32	131969	66.9	472	702	3628	1646.00	0.10	0.31
2/0	3332/34	RB	7x7x68/34	0.504	12.80	132247	67.0	450	670	3635	1649.00	0.09	0.30
2/0	5292/36	RB	7x7x108/36	0.504	12.80	132300	67.0	450	670	3637	1650.00	0.09	0.30
4/0	37/13	C	37/13	0.504	12.80	191808	97.2	598	890	5273	2392.00	0.06	0.19
4/0	61/15	C	61/15	0.514	13.05	198885	100.8	620	923	5467	2480.00	0.05	0.18
4/0	133/18	RC	7x19/18	0.605	15.35	216004	109.5	707	1050	5938	2693.00	0.05	0.17
4/0	133/18	RC	19x7/18	0.605	15.35	216004	109.5	742	1100	5938	2693.00	0.06	0.18
4/0	259/21	RB	7x 7/21	0.583	14.80	210373	106.6	682	1010	5783	2623.00	0.05	0.18
4/0	259/21	RC	37x7/21	0.599	15.20	210373	106.6	723	1080	5783	2623.00	0.06	0.19
4/0	427/23	RC	61x7/23	0.610	15.50	218095	110.5	750	1120	5995	2719.00	0.05	0.18
4/0	427/23	RB	7x61/23	0.593	15.07	218095	110.5	707	1050	5995	2719.00	0.05	0.17
4/0	2107/30	RB	7x7x43/30	0.636	16.16	210700	106.8	717	1070	5792	2627.00	0.06	0.14
4/0	2109/30	RB	37x57/30	0.584	14.82	210900	106.9	718	1068	5797	2630.00	0.06	0.19
4/0	5320/24	RB	19x7x40/34	0.663	16.85	211151	107.0	754	1120	5804	2633.00	0.06	0.20
4/0	8512/36	RB	19x7x64/36	0.666	16.92	212800	107.8	761	1130	5650	2653.00	0.06	0.20

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.