

CONDUCTORS - ALUMINIUM ALLOY (AAAC)

Code Name	Diameters (mm)	Stranding Number and Wire Diameters		Cross Section (mm ²)	Breaking Load		Weight (kg/mt)	Current Rating Amps
		No.	(mm)		(kg)	(kN)		
	3.22	3	1.50	5.30	159	1.560	0.014	
	3.44	3	1.60	6.03	181	1.776	0.017	
	3.45	7	1.15	7.27	218	2.138	0.020	
	3.60	7	1.20	7.92	237	2.325	0.022	
	3.65	3	1.70	6.81	209	2.050	0.019	
	3.87	3	1.80	7.63	229	2.246	0.021	
	4.05	7	1.35	10.02	301	2.953	0.028	
	4.30	3	2.00	9.42	282	2.766	0.026	
	4.50	3	2.10	10.39	319	3.129	0.029	
	4.50	7	1.50	12.37	371	3.639	0.034	
	4.80	7	1.60	14.07	422	4.140	0.039	
	4.84	3	2.25	11.93	358	3.512	0.033	
	4.95	3	2.30	12.46	383	3.757	0.034	
	5.00	19	1.00	14.92	448	4.395	0.041	
	5.05	3	2.35	13.01	400	3.924	0.036	
	5.10	7	1.70	15.89	505	4.954	0.044	
	5.37	3	2.50	14.73	442	4.336	0.040	
	5.40	7	1.80	17.81	534	5.238	0.049	
	5.60	3	2.60	15.93	489	4.797	0.044	
	5.70	7	1.90	19.85	603	5.915	0.055	
	6.00	7	2.00	21.99	660	6.474	0.060	
	6.00	19	1.20	21.49	645	6.327	0.059	
	6.02	3	2.80	18.47	554	5.435	0.051	
Lilac	6.07	3	2.82	18.77	548	5.376	0.052	
	6.25	3	2.90	19.82	609	5.974	0.055	
Acacia	6.25	7	2.08	23.87	694	6.808	0.066	133
	6.30	7	2.10	24.25	737	7.230	0.067	
	6.45	3	3.00	21.21	636	6.239	0.058	
	6.75	7	2.25	27.83	835	8.191	0.077	
	6.75	19	1.35	27.20	816	8.005	0.075	
	6.90	3	3.20	24.13	741	7.269	0.066	
Almond	7.01	7	2.34	30.00	870	8.535	0.082	153
	7.20	7	2.40	31.67	963	9.447	0.087	
	7.50	7	2.50	34.36	1031	10.114	0.095	
Cedar	7.62	7	2.54	35.48	1029	10.094	0.098	169
Chestnut	7.72	3	3.58	30.19	884	8.672	0.083	
	8.00	19	1.60	38.20	1146	11.242	0.105	
	8.10	7	2.70	40.08	1218	11.948	0.110	
Deodar	8.22	7	2.74	41.35	1202	11.791	0.113	
35	8.31	7	2.77	42.81		12.100	0.115	200
Birch	8.38	3	3.88	35.61	1043	10.232	0.098	
	8.40	7	2.80	43.10	1293	12.684	0.118	
Fir	8.84	7	2.95	47.74	1383	13.567	0.131	204
	9.00	7	3.00	49.48	1504	14.754	0.136	
	9.00	19	1.80	48.35	1450	14.225	0.133	
	9.60	7	3.20	56.30	1689	16.569	0.155	
Beech	9.75	3	4.52	48.19	1411	13.842	0.132	
Hazel	9.90	7	3.30	59.93	1741	17.079	0.165	235
	10.00	19	2.00	56.69	1791	17.570	0.156	
	10.50	19	2.10	65.82	1959	19.218	0.181	
Pine	10.82	7	3.61	71.61	2077	20.375	0.197	262
	11.20	37	1.60	74.39	2232	21.896	0.205	
	11.25	19	2.25	75.55	2266	22.229	0.208	
	11.50	19	2.30	78.94	2349	23.044	0.217	
Holly	11.73	7	3.91	83.87	2440	23.936	0.230	
	11.75	19	2.35	82.41	2472	24.250	0.227	
Willow	12.11	7	4.04	89.67	2603	25.535	0.247	302

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		No.	(mm)		(kg)	(kN)		
	12.50	19	2.50	93.27	2798	27.448	0.257	
Jacaranda	12.57	7	4.19	96.77	2803	27.497	0.266	
	12.60	37	1.80	94.15	2825	27.713	0.259	
	13.00	19	2.60	100.90	3002	29.450	0.275	
	13.30	37	1.90	104.91	3232	31.706	0.288	
Laburnum	13.33	7	4.44	108.38	3152	30.921	0.298	
	15.30	19	2.70	108.78	3264	32.020	0.299	
Oak	13.94	7	4.65	118.71	3447	33.815	0.327	359
	14.00	37	2.00	116.24	3487	34.207	0.320	
Alliance	14.31	7	4.77	125.09		38.140	0.342	403
	14.50	19	2.90	125.50	3835	36.640	0.345	
	14.70	37	2.10	128.15	3845	37.719	0.352	
	15.75	37	2.25	147.11	4413	43.291	0.404	
Mulberry	15.87	19	3.17	150.32	4272	41.908	0.414	416
	16.00	19	3.20	152.81	4584	44.969	0.420	
	16.45	37	2.35	160.50	4622	45.342	0.442	
Ash	17.40	19	3.48	180.64	5125	50.276	0.497	467
	17.50	37	2.50	181.62	5449	53.455	0.500	
	18.20	37	2.60	196.40	5658	55.505	0.540	
Elm	18.80	19	3.76	210.96	5987	58.732	0.580	513
Palm	18.84	37	2.69	210.96	5715	56.064	0.580	
	18.90	37	2.70	211.85	6355	62.342	0.583	
	18.90	61	2.10	211.28	6022	59.075	0.580	
	19.60	37	2.80	277.83	6835	67.051	0.625	
Poplar	20.09	37	2.87	239.35	6531	64.049	0.658	551
	20.25	61	2.25	242.51	6912	67.807	0.667	
	20.30	37	2.90	244.40	7038	69.043	0.673	
	21.15	61	2.35	264.58	7541	73.977	0.728	
Rowan	21.34	37	3.05	269.67	7348	72.084	0.742	
	21.80	19	4.36	283.67	8260	81.031	0.780	
	22.40	37	3.20	297.57	8927	87.574	0.818	
	22.50	61	2.50	299.43	8534	83.719	0.825	
Sycamore	22.58	37	3.22	302.58	8210	80.540	0.832	643
	23.40	61	2.60	323.60	9327	91.498	0.890	
	24.30	61	2.70	349.26	9954	97.649	0.960	
Upas	24.71	37	3.53	361.93	9842	96.550	0.995	718
	24.85	37	3.55	366.22	10600	103.986	1.005	
	26.10	61	2.90	402.90	11604	113.835	1.110	
Walnut	26.67	37	3.81	421.93	11475	112.570	1.160	
	27.00	61	3.00	431.18	12889	126.441	1.185	
	27.36	61	3.04	442.73	12700	124.587	1.218	
	28.14	37	4.02	469.61	13000	127.530	1.290	
Yew	28.44	37	4.06	480.00	13063	128.148	1.320	853
	28.20	61	3.20	490.60	14128	138.596	1.349	
	30.47	91	2.77	548.40	15630	153.330	1.510	
	31.05	61	3.45	570.24	16930	166.083	1.570	
	32.31	61	3.59	617.30	17500	171.675	1.700	
	33.00	91	3.00	643.20	18330	179.817	1.770	
	35.73	61	3.97	763.00	22300	218.763	2.100	
	39.24	61	4.36	912.00	27000	264.870	2.508	