

CONDUCTOR DATA SHEET

ALL ALUMINIUM CONDUCTOR (AAC)

ASTM SIZES

Code Name	Area		Equivalent copper area		Stranding and wire diameter	Approx. overall diameter	Weight	Rated Strength	Maximum dc resistance at 20 °C
	Aluminium				Aluminium				
	AWG or MCM	mm ²	AWG or MCM	mm ²	mm	mm	kg/km	kN	Ω /km
Peachbell	6	13.28	8	8.1	7/1.554	4.66	36.6	2.485	2.164
Rose	4	21.14	6	12.9	7/1.961	5.88	58.3	3.958	1.359
Iris	2	33.65	4	20.5	7/2.474	7.42	92.8	5.976	0.8539
Pansy	1	42.36	3	25.8	7/2.776	8.32	116.8	7.118	0.6783
Poppy	1/0	53.48	2	32.6	7/3.119	9.35	147.4	8.729	0.5373
Aster	2/0	67.47	1	41.2	7/3.503	10.51	186.0	11.01	0.4259
Phlox	3/0	84.98	1/0	51.8	7/3.932	11.79	234.3	13.46	0.3381
Oxlip	4/0	107.2	2/0	65.4	7/4.417	13.25	295.7	19.99	0.2679
Valerian	250	126.2	157	77.2	19/2.913	14.56	349.0	20.61	0.2269
Sneezewort	250	126.7	157	77.3	7/4.801	14.40	349.3	20.07	0.2268
Laurel	266.8	135.2	168	82.5	19/3.010	15.05	373	21.38	0.2125
Daisy	266.8	135.3	3/0	82.5	7/4.961	14.88	373.3	21.43	0.2124
Peony	300.0	152.1	189	92.8	19/3.193	15.96	419.0	24.05	0.1889
Tulip	336.4	170.6	4/0	104.0	19/3.381	16.90	470.3	26.97	0.1685
Daffodil	350.0	177.3	220	108.0	19/3.447	17.23	488.8	28.03	0.1621
Canna	397.5	201.6	250	123.0	19/3.675	18.37	555.8	31.86	0.1426
Goldentuft	450	228.0	280	139.1	19/3.909	19.54	628.6	34.99	0.1260
Syringa	477	241.5	300	147.3	37/2.883	20.18	665.8	38.47	0.1190
Cosmos	477	241.5	300	147.3	19/4.023	20.11	665.8	37.06	0.1190
Hyacinth	500	253.1	315	154.4	37/2.951	20.65	697.8	40.30	0.1135

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	Aluminium				Aluminium				
	AWG or MCM	mm ²	AWG or MCM	mm ²	mm	mm	kg/km	kN	Ω /km
Zinnia	500	253.3	315	155	19/4.120	20.60	698.3	38.87	0.1134
Dahlia	556.5	281.8	350	171.9	19/4.346	21.73	776.9	43.25	0.1020
Mistletoe	556.5	281.8	350	171.9	37/3.114	21.79	776.9	43.59	0.1020
Meadowsweet	600	303.7	380	185.3	37/3.233	22.63	837.3	46.99	0.0946
Orchid	636	322.2	400	196.5	37/3.330	23.31	888.3	49.85	0.0892
Heuchera	650	329.6	410	201.1	37/3.368	23.57	908.7	51.00	0.0872
Flag	700	354.5	450	216.2	61/2.720	24.48	977.4	57.42	0.0811
Verbena	700	354.6	450	216.3	37/3.493	24.45	977.6	54.85	0.08150
Nasturtium	715.5	362.6	450	221.2	61/2.751	24.76	999.7	58.74	0.07925
Violet	715.5	362.7	450	221.2	37/3.533	24.73	1000	56.11	0.07922
Cattail	750	380.2	472	231.9	61/2.817	25.35	1048	59.88	0.07558
Petunia	750	380.4	472	232.0	37/3.617	25.32	1049	58.81	0.07558
Lilac	795	403.2	500	246.0	61/2.901	26.11	1111	63.50	0.07127
Arbutus	795	402.9	500	245.8	37/3.724	26.07	1111	62.35	0.07130
Snapdragon	900	456.3	560	278.3	61/3.086	27.77	1258	69.81	0.06298
Cockscomb	900	456.2	560	278.3	37/3.962	27.73	1257	68.49	0.06299
Goldenrod	954	483.9	600	295.2	61/3.178	28.60	1334	74.03	0.05939
Magnolia	954	483.6	600	295.0	37/4.079	28.55	1333	72.60	0.05943
Camellia	1000	506.4	620	308.9	61/3.251	29.26	1396	77.47	0.05675
Hawkweed	1000	506.9	620	309.2	37/4.176	29.23	1397	76.09	0.05670
Larkspur	1033.5	523.9	650	319.6	61/3.307	29.76	1444	80.16	0.05484

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	Aluminium				Aluminium				
	AWG or MCM	mm ²	AWG or MCM	mm ²	mm	mm	kg/km	kN	Ω /km
Bluebell	1033.5	523.4	650	319.3	37/4.244	29.71	1443	78.59	0.05490
Marigold	1113	564.3	700	344.2	61/3.432	30.89	1556	86.34	0.05092
Hawthorn	1192.5	604.1	750	368.5	61/3.551	31.96	1665	92.43	0.04957
Narcissus	1272	644.6	800	393.2	61/3.668	33.01	1777	98.62	0.04458
Carnation	1431	725.3	900	442.4	61/3.891	35.02	1999	107.71	0.03962
Gladiolus	1510.5	765.8	950	467.1	61/3.998	35.98	2111	113.72	0.03752
Coreopsis	1590	805.4	1000	491.3	61/4.100	36.90	2220	119.60	0.03568
Jessamine	1750	887.1	1100	541.1	61/4.303	38.72	2445	131.73	0.03239
Cowslip	2000	1013	1230	617.9	91/3.764	41.40	2820	148.70	0.02838
Sagebrush	2250	1139	1370	694.8	91/3.993	43.92	3171	167.34	0.02522
Lupine	2500	1266	1530	772.3	91/4.209	46.30	3524	185.94	0.02269
Bitterroot	2750	1393	1680	849.8	91/4.415	48.56	3878	204.58	0.02063
Trillium	3000	1520	1830	927.2	127/3.904	50.75	4273	223.25	0.01890
Bluebonnet	3500		2120	1081.5	127/4.216	54.81	4984	260.36	0.01621

CONDUCTOR DATA SHEET

ALL ALUMINIUM CONDUCTOR (AAC)

Australian Sizes

Code Name	Area Actual	Equivalent Copper Area	Stranding and wire diameter	Overall Diameter	Weight	Rated Strength	Maximum DC resistance at 20 °C
	mm ²	mm ²	mm	mm	kg/km	kN	Ω /km
LEO	34.36	21.0	7/2.50	7.50	94.3	5.71	0.833
LEONIDS	41.58	25.4	7/2.75	8.25	113	6.72	0.689
LIBRA	49.48	30.2	7/3.00	9.00	135	7.98	0.579
MARS	77.28	47.1	7/3.75	11.3	211	11.80	0.370
MERCURY	111.3	67.9	7/4.50	13.5	304	16.9	0.258
MOON	124.0	75.6	7/4.75	14.3	339	18.9	0.232
NEPTUNE	157.6	96.1	19/3.25	16.3	433	24.7	0.183
ORION	182.8	111.5	19/3.50	17.5	503	28.7	0.157
PLUTO	209.8	128.0	19/3.75	18.8	576	31.9	0.137
TAURUS	336.7	205.4	19/4.75	23.8	924	51.3	0.0857
SATURN	261.6	159.6	37/3.00	21.0	721	42.2	0.110
SIRIUS	307.0	187.3	37/3.25	22.8	845	48.2	0.094
TRITON	408.5	249.2	37/3.75	26.3	1120	62.2	0.0706
URANUS	506.1	308.7	61/3.25	29.3	1400	75.2	0.0572
URSULA	586.9	358.0	61/3.50	31.5	1620	87.3	0.0493
VENUS	673.4	410.8	61/3.75	33.8	1860	97.2	0.0429

CONDUCTOR DATA SHEET

ALL ALUMINIUM CONDUCTOR (AAC)

British Sizes

Code Name	Nominal Aluminum area	Equivalent Copper Area	Stranding and wire diameter	Overall Diameter	Total Area	Weight	Rated Strength	Maximum DC resistance at 20 °C
	mm ²	mm ²	mm	mm	mm ²	kg/km	kN	Ω /km
Midge	22	14.2	7/2.06	6.2	23.3	64	3.99	1.227
Aphis	25	16.1	3/3.35	7.2	26.4	73	4.12	1.081
Gnat	25	16.1	7/2.21	6.6	26.8	73	4.59	1.0662
Weevil	30	19.4	3/3.66	7.9	31.6	86	4.86	0.9082
Mosquito	35	22.6	7/2.59	7.8	36.9	101	6.03	0.7763
Ladybird	40	25.8	7/2.79	8.4	42.8	117	6.99	0.6687
Ant	50	32.3	7/3.10	9.3	52.8	145	8.28	0.5419
Fly	60	38.7	7/3.40	10.2	63.6	174	9.90	0.4505
Bluebottle	70	45.2	7/3.66	11.0	73.7	202	11.33	0.3887
Earwig	75	48.4	7/3.78	11.4	78.5	215	11.94	0.3645
Grasshopper	80	51.6	7/3.91	11.7	84.1	230	12.78	0.3405
Clegg	90	58.1	7/4.17	12.5	95.6	262	14.53	0.2994
Wasp	100	64.5	7/4.39	13.2	106.0	290	16.00	0.2700
Beetle	100	64.5	19/2.67	13.4	106.4	293	17.38	0.2703
Bee	125	80.6	7/4.90	14.7	132.0	361	19.94	0.2167
Cricket	150	96.8	7/5.36	16.1	157.9	432	23.80	0.1812
Hornet	150	96.8	19/3.25	16.3	157.6	434	25.70	0.1825
Caterpillar	175	113.0	19/3.53	17.7	186.0	512	28.62	0.1547
Chafer	200	129.0	19/3.78	18.9	213.2	587	32.40	0.1349
Spider	225	145.0	19/3.99	20.0	237.6	652	36.11	0.1211

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	mm ²	mm ²	mm	mm	mm ²	kg/km	kN	Ω /km
Cockroach	250	161.0	19/4.22	21.1	265.7	731	40.40	0.10830
Butterfly	300	194.0	19/4.65	23.3	322.7	888	48.75	0.08912
Moth	350	226.0	19/5.00	25.0	373.2	1027	56.35	0.07709
Drone	350	226.0	37/3.58	25.1	372.5	1029	57.32	0.07738
Locust	400	258.0	19/5.36	26.8	428.5	1179	64.76	0.06710
Centipede	400	258.0	37/3.78	26.5	415.2	1145	63.10	0.06944
Maybug	450	290.0	37/4.09	28.6	486.0	1340	73.89	0.05929
Scorpion	500	323.0	37/4.27	29.9	530.0	1460	80.03	0.05442
Cicada	600	387.0	37/4.65	32.6	628.6	1733	94.91	0.04587
Tarantula	750	484.0	37/5.23	36.6	794.8	2191	120.07	0.03628

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ALL ALUMINIUM CONDUCTOR (AAC)

Canadian Size

Code Name	Total Area		Equivalent Copper Area		Stranding and wire diameter	Approx. overall diameter	Weight	Rated Strength	Maximum dc resistance at 20 °C
	AWG or MCM	mm ²	AWG or MCM	mm ²	mm	mm	kg/km	kN	Ω /km
Rose	4	21.14	6	12.9	7/1.961	5.89	58	4.12	1.3544
Lily	3	26.65	5	16.3	7/2.202	6.61	73	5.06	1.0741
Iris	2	33.65	4	20.5	7/2.474	7.42	92	6.23	0.8509
Pansy	1	42.36	3	25.8	7/2.776	8.33	116	7.41	0.6759
Poppy	1/0	53.48	2	32.6	7/3.119	9.36	147	9.09	0.5354
Aster	2/0	67.46	1	41.2	7/3.503	10.51	184	11.47	0.4244
Phlox	3/0	85.00	1/0	51.9	7/3.932	11.80	232	14.02	0.3369
Oxlip	4/0	107.26	2/0	65.4	7/4.417	13.25	293	17.70	0.2670
Daisy	266.8	135.25	3/0	82.5	7/4.960	14.88	369	22.32	0.2117
Valerian	250.0	126.63	157.0	77.2	19/2.913	14.57	348	22.16	0.2272
Laurel	266.8	135.20	168.0	82.5	19/3.010	15.05	372	22.98	0.2128
Peony	300.0	152.13	188.8	92.8	19/3.193	15.97	418	25.86	0.1891
Tulip	336.4	170.58	4/0	104.1	19/3.381	16.91	469	29.00	0.1687
Daffodil	350.0	177.30	220.0	108.1	19/3.447	17.24	488	30.14	0.1623
Canna	397.5	201.32	250.0	122.8	19/3.673	18.36	554	34.22	0.1429
-	400.0	202.75	250.0	123.7	19/3.686	18.43	558	34.47	0.1419
Goldentuft	450.0	228.02	283.0	139.1	19/3.909	19.55	627	37.62	0.1262
Cosmos	477.0	241.51	300.0	147.3	19/4.023	20.12	664	39.85	0.1191
Zinnia	500.0	253.30	314.5	154.5	19/4.120	20.60	697	41.79	0.1136

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Canadian Size

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	AWG or MCM	mm ²	AWG or MCM	mm ²	mm	mm	kg/km	kN	Ω /km
Dahlia	556.5	281.86	350.0	171.9	19/4.346	21.73	775	46.51	0.1021
-	550.0	278.54	345	169.9	37/3.096	21.67	768	47.35	0.1035
Meadowsweet	600.0	303.74	377	185.3	37/3.233	22.63	838	51.64	0.09495
Orchid	636.0	322.24	400	196.6	37/3.330	23.31	888	54.78	0.08950
Heuchera	650.0	329.24	408	200.8	37/3.366	23.56	908	55.97	0.08760
Verbena	700.0	354.56	440	216.3	37/3.493	24.45	978	60.28	0.08134
VIOLET	715.5	362.72	450	221.3	37/3.533	24.73	1001	61.66	0.07951
PETUNIA	750.0	380.18	472	231.9	37/3.617	25.32	1049	64.63	0.07586
ARBUTUS	795.0	403.00	500	245.8	37/3.724	26.07	1112	68.51	0.07156
-	800.0	405.17	502	247.2	37/3.734	26.14	1118	68.88	0.07118
ANEMONE	874.5	442.91	550	270.2	37/3.904	27.33	1223	73.08	0.06512
COCKSCOMB	900.0	456.91	565	278.7	37/3.962	27.73	1259	75.27	0.06322
MANGNALIA	954.0	483.50	600	294.9	37/4.079	28.55	1325	79.78	0.05965
HAWKWEED	1000.0	506.77	628	309.1	37/4.176	29.23	1399	83.62	0.05691
BLUEBELL	1033.5	523.41	650	319.3	37/4.244	29.71	1445	86.36	0.05510
-	1100.0	557.42	690	340.0	61/3.411	30.70	1541	94.76	0.05182
MARIGOLD	1113.0	564.31	700	344.2	61/3.432	30.89	1560	95.93	0.05118
HAWTHORN	1192.5	604.12	750	368.5	61/3.551	31.96	1670	102.70	0.04781

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Canadian Size

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	AWG or MCM	mm ²	AWG or MCM	mm ²	mm	mm	kg/km	kN	Ω /km
-	1200.0	608.55	754	371.2	61/3.564	32.08	1682	103.45	0.04746
NARCISSUS	1272.0	644.58	800	393.2	61/3.668	33.01	1782	109.58	0.04481
-	1300.0	658.71	816	401.8	61/3.708	33.37	1821	111.98	0.04385
COLUMBINE	1351.5	684.54	850	417.6	61/3.780	34.02	1892	112.95	0.04219
-	1400.0	709.40	880	432.7	61/3.848	34.63	1961	117.05	0.04071
CARNATION	1431.0	725.34	900	442.5	61/3.891	35.02	2005	119.68	0.03982
-	1500.0	760.05	942	463.6	61/3.983	35.85	2101	125.41	0.03800
GLADIOLUS	1510.5	765.78	950	467.1	61/3.998	35.98	2117	126.35	0.03772
COREOPSIS	1590.0	803.78	1000	490.3	61/4.096	36.86	2222	132.62	0.03593
-	1600.0	811.26	1005	494.9	61/4.115	37.04	2243	133.86	0.03560
-	1700.0	860.88	1068	525.1	61/4.239	38.15	2380	142.05	0.03355
-	1800.0	911.40	1131	556.0	91/3.571	39.28	2522	154.94	0.03172

CONDUCTOR DATA SHEET

ALL ALUMINIUM CONDUCTOR (AAC)

French Spec

Nominal Area	Stranding and wire diameter	Approx.Overall Diameter	Weight	Rated Strength	Maximum DC resistance at 20 °C
mm ²	mm	mm	kg/km	kN	Ω /km
27.8	7x2.25	6.75	77	4.854	1.03
34.4	7x2.50	7.50	95	5.649	0.833
43.1	7x2.80	8.40	118	7.110	0.665
54.6	7x3.15	9.45	150	8.463	0.526
75.6	19x2.25	11.25	209	11.964	0.382
93.3	19x2.50	12.50	258	14.808	0.309
117	19x2.80	14	324	18.044	0.247
148	19x3.15	15.75	410	22.261	0.195
188	19x3.55	17.75	520	28.243	0.153
228	37x2.80	19.60	633	34.421	0.127
238	37x2.86	20.02	650	35.598	0.122
288	37x3.15	22.05	799	42.266	0.100
366	37x3.55	24.85	1016	53.642	0.0792
475	61x3.15	28.35	1324	67.274	0.0612
604	61x3.55	31.95	1680	85.514	0.0481
710	91x3.15	34.65	1950	100.224	0.0410

CONDUCTOR DATA SHEET

ALL ALUMINIUM CONDUCTOR (AAC)

DIN Spec.

Area		Equivalent Copper Area	Stranding and wire diameter	Overall Diameter	Weight	Rated Strength	Maximum dc resistance at 20 °C
Nominal	Actual						
mm ²	mm ²	mm ²	mm	mm	kg/km	kN	Ω /km
16	15.89	10	7/1.7	5.1	43	2.84	1.8017
25	24.25	15	7/2.1	6.3	66	4.17	1.1806
35	34.36	21	7/2.5	7.5	94	5.78	0.8332
50	49.48	30	7/3.0	9.0	135	7.94	0.5786
50	48.36	29	19/1.8	9.0	133	8.45	0.5948
70	65.82	40	19/2.10	10.5	181	11.32	0.4370
95	93.27	57	19/2.50	12.5	256	15.68	0.3084
120	117.00	71	19/2.80	14.0	322	18.78	0.2459
150	147.10	90	37/2.25	15.75	406	25.30	0.1960
185	181.60	111	37/2.50	17.50	500	30.54	0.1588
240	242.5	148	61/2.25	20.25	670	39.51	0.1192
300	299.4	183	61/2.50	22.50	827	47.70	0.09651
400	400.1	244	61/2.89	26.01	1104	60.86	0.07222
500	499.8	305	61/3.23	29.07	1379	74.67	0.05782
625	626.2	385	91/2.96	32.56	1732	95.25	0.04625
800	802.1	489	91/3.35	36.85	2218	118.39	0.03611
1000	999.7	610	91/3.74	41.14	2767	145.76	0.02897

CONDUCTOR DATA SHEET

ALL ALUMINIUM CONDUCTOR (AAC)

IEC Spec

Code Name	Area Actual	Equivalent Copper Area	Stranding and wire diameter	Overall Diameter	Weight	Rated Strength	Maximum DC resistance at 20 °C
	mm ²	mm ²	mm	mm	kg/km	kN	Ω /km
10	10	6.1	7/1.35	4.05	27.4	1.95	2.8633
16	16	9.8	7/1.71	5.13	43.8	3.04	1.7896
25	25	15.3	7/2.13	6.39	68.4	4.50	1.1453
40	40	24.4	7/2.70	8.10	109.4	6.80	0.7158
63	63	38.4	7/3.39	10.17	172.3	10.39	0.4545
100	100	61.0	19/2.59	12.95	274.8	17.00	0.2877
125	125	76.3	19/2.89	14.45	343.6	21.25	0.2302
160	160	97.6	19/3.27	16.35	439.8	26.40	0.1798
200	200	122.0	19/3.66	18.30	549.7	32.00	0.1439
250	250	152.5	19/4.09	20.45	687.1	40.00	0.1151
315	315	192.2	37/3.29	23.03	867.9	51.97	0.0916
400	400	244.0	37/3.71	25.97	1102.0	64.00	0.7210
450	450	274.5	37/3.94	27.58	1239.8	72.00	0.0641
500	500	305.0	37/4.15	29.05	1377.6	80.00	0.0577
560	560	341.6	37/4.39	30.73	1542.9	89.60	0.0515
630	630	384.3	61/3.63	32.67	1738.3	100.80	0.0458
710	710	433.1	61/3.85	34.65	1959.1	113.60	0.0407
800	800	488.0	61/4.09	36.81	2207.4	128.00	0.0361
900	900	549.0	61/4.33	38.97	2483.3	144.00	0.0321
1000	1000	610.0	61/4.57	41.13	2759.2	160.00	0.0289
1120	1120	683.2	91/3.96	43.56	3093.5	179.20	0.0258
1250	1250	762.5	91/4.18	45.98	3452.6	200.00	0.0231
1400	1400	854.0	91/4.43	48.73	3866.9	224.00	0.0207
1500	1500	915.0	91/4.58	50.38	4143.1	240.00	0.0193