

**ALL ALUMINIUM CONDUCTORS (AAC)
AS PER ASTM B231-78**

Cord word	Conductor size CM or AWG	Stranding Nos. / mm	Sectional area mm ²	Overall diameter mm	Weight kg/km	Ultimate strength kg	Calculated DC resistance at 20°C Ohm/km
Bluebonnet Trillium Bitterroot	3,500,000 3,000,000 2,750,000	127/4.216 127/3.904 91/4.415	1,773 1,520 1,393	54.81 50.75 48.57	4,983 4,274 3,879	26,700 22,800 20,900	0.01653 0.01927 0.02083
Lupine Sagebrush Cowslip	2,500,000 2,250,000 2,000,000	91/4.209 91/3.993 91/3.764	1,266 1,139 1,013	46.30 43.92 41.40	3,525 3,173 2,819	19,000 17,100 15,600	0.02292 0.02547 0.02866
Jessamine Coreopsis Gladiolus	1,750,000 1,590,000 1,510,500	61/4.303 61/4.100 61/3.998	886.9 805.2 765.6	38.73 36.90 35.98	2,446 2,221 2,111	13,500 12,200 11,600	0.03239 0.03568 0.03752
Carnation Columbine Narcissus	1,431,000 1,315,500 1,272,000	61/3.891 61/3.780 61/3.668	725.3 684.4 644.8	35.02 34.02 33.01	2,000 1,887 1,777	11,000 10,600 9,900	0.03961 0.04197 0.04458
Hawthorn Marigold Bluebeli	1,192,500 1,113,000 1,033,500	61/3.551 61/3.432 37/4.244	604.1 564.3 523.6	31.96 30.89 29.71	1,665 1,556 1,443	9,550 8,950 8,050	0.04757 0.05092 0.05489
Larkspur Hawkweed Camellia	1,033,500 1,000,000 1,000,000	61/3.307 37/4.176 61/3.251	523.9 506.9 506.4	29.76 29.23 29.26	1,445 1,397 1,396	8,290 7,780 8,020	0.05485 0.05671 0.05675
Magnolia Goldenrod Cockscomb	954,000 954,000 900,000	37/4.097 61/3.178 37/3.962	483.6 483.9 456.2	28.55 28.60 27.73	1,333 1,334 1,257	7,410 7,630 7,000	0.05944 0.05939 0.06299
Sanpdragon Arbutus Lilac	900,000 795,000 795,000	61/3.086 37/3.724 61/2.901	456.3 402.9 403.2	27.77 26.07 26.11	1,258 1,111 1,112	7,190 6,330 6,480	0.06297 0.07129 0.07127
Petunia Cattail Violet	750,000 750,000 715,500	37/3.617 61/2.817 37/3.533	380.4 380.2 362.7	25.32 25.35 24.73	1,048 1,048 1,000	5,960 6,150 5,790	0.07559 0.07558 0.07923
Nasturtium Verbena Flag	715,500 700,000 700,000	61/2.751 37/3.493 61/2.720	362.6 354.6 354.5	24.76 24.45 24.48	999.9 977.5 977.5	5,980 5,660 5,820	0.07926 0.08105 0.08106
Heuchera Orchid Meadowsweet	650,000 636,000 600,000	37/3.368 37/3.330 37/3.233	329.6 322.2 303.7	23.58 23.31 22.63	908.8 888.4 837.5	5,290 5,150 4,850	0.08717 0.08918 0.09461
Dahlia Mistletoe Zinnia	556,500 556,500 500,000	19/4.346 37/3.114 19/4.120	281.8 281.8 253.3	21.73 21.80 20.60	777.1 777.1 698.5	4,420 4,510 3,980	0.1019 0.1020 0.1134
Hyacinth Cosmos Syringa	500,000 477,000 477,000	37/2.951 19/4.023 37/2.883	253.1 241.5 241.5	20.66 20.12 20.18	697.8 665.9 666.1	4,140 3,780 3,940	0.1136 0.1190 0.1190
Goldentuft Canna Daffodil	450,000 397,500 350,000	19/3.909 19/3.675 19/3.447	228.0 201.6 177.3	19.55 18.38 17.24	628.7 555.6 488.8	3,570 3,230 2,900	0.1260 0.1426 0.1621
Tulip Peony Daisy	336,400 300,000 266,800	19/3.381 19/3.193 7/4.961	170.6 152.1 135.3	16.91 15.97 14.88	470.4 419.4 373.1	2,790 2,490 2,190	0.1685 0.1889 0.2123
Laurel Sneezewort Valerian	266,800 250,000 250,000	19/3.010 7/4.801 19/2.913	135.2 126.7 126.6	15.05 14.40 14.57	372.7 349.4 349.0	2,260 2,050 2,100	0.2125 0.2267 0.2269
Oxlip Phlox Aster	(4/0) (3/0) (2/0)	7/4.417 7/3.932 7/3.503	107.2 84.98 67.47	13.25 11.80 10.51	295.7 234.3 186.0	1,740 1,380 1,140	0.2680 0.3381 0.4259
Poppy Pansy Iris	(1/0) (1) (2)	7/3.119 7/2.776 7/2.474	53.48 42.36 33.65	9.357 8.328 7.422	147.4 116.8 92.75	900 746 614	0.5372 0.6783 0.8539
Rose Peachbell	(4) (6)	7/1.961 7/1.554	21.14 13.28	5.883 4.662	58.29 36.61	400 255	1.359 2.164

ALL ALUMINIUM CONDUCTORS (AAC)
AS PER BS 215 : Part 1 : 1970

Nominal aluminium area (1) mm ²	Stranding and wire diameter (2) mm	Sectional area (3) mm ²	Approximate overall diameter (4) mm	Approximate mass per km (5) kg	Calculated D. C. resistance at 20° C per km (6) Ohm	Calculated breaking load (7) kN
22	7/2.06	23.33	6.18	64	1.227	3.99
50	7/3.10	52.83	9.30	145	0.541 9	8.28
60	7/3.40	63.55	10.20	174	0.450 5	9.90
100	7/4.39	106.0	13.17	290	0.270 2	16.00
150	19/3.25	157.6	16.25	434	0.182 5	25.70
200	19/3.78	213.2	18.90	587	0.134 9	32.40
250	19/4.22	265.7	21.10	731	0.108 3	40.40
300	19/4.65	322.7	23.25	888	0.089 16	48.75
400	37/3.78	415.2	26.46	1145	0.069 44	63.10

ALL ALUMINIUM CONDUCTORS (AAC)
AS PER IS 398 : Part 1 : 1996

Nominal aluminium area (1) mm ²	Stranding and wire diameter (2) mm	Sectional area (3) mm ²	Approximate overall diameter (4) mm	Approximate mass per km (5) kg	Calculated D. C. resistance at 20° C per km (6) Ohm	Calculated breaking load (7) kN
25	7/2.21	26.85	6.63	74	1.096	4.52
50	7/3.10	52.83	9.30	145	0.552 5	8.25
100	7/4.39	106.0	13.17	290	0.275 2	15.96
150	19/3.18	150.9	15.90	415	0.194 2	23.28
240	19/3.99	237.6	19.95	654	0.123 5	35.74
300	19/4.65	322.7	23.25	888	0.091 07	48.74

ALL ALUMINIUM CONDUCTORS (AAC)
AS PER DIN 48201 Blatt 5 - 1965

Conductor size mm ²	Standing No. / mm	Calculated sectional area mm ²	Overall diameter mm	Ultimate strength kP	Weight kg/km	Calculated electrical resistance at 20° C Ohm/km
16	7/1.7	15.89	5.1	290	44	1.798
25	7/2.1	24.25	6.3	425	67	1.177
35	7/2.5	34.36	7.5	585	94	0.831
50	7/3	49.48	9.0	810	135	0.577
50	19/1.8	48.36	9.0	860	133	0.596
70	19/2.1	65.82	10.5	1,150	181	0.438
95	19/2.5	93.27	12.5	1,595	256	0.309
120	19/2.8	117.0	14.0	1,910	322	0.246
150	37/2.25	147.1	15.7	2,570	406	0.197
185	37/2.5	181.6	17.5	3,105	501	0.160
240	61/2.25	242.5	20.2	4,015	670	0.120
300	61/2.5	299.4	22.5	4,850	827	0.0969
400	61/2.89	400.1	26.0	6,190	1,105	0.0730
500	61/3.23	499.8	29.1	7,600	1,381	0.0580
625	91/2.96	626.2	32.6	9,690	1,733	0.0462
800	91/3.35	802.1	36.8	12,055	2,219	0.0361
1,000	91/3.74	999.7	41.1	14,845	2,766	0.0290