

## All Aluminium Conductor (AAC)

AAC (ASTM B231)

Code Name	Area (mm <sup>2</sup> )	Equivalent Copper Area (mm <sup>2</sup> )	Strands / Wire Diameter (mm)	Diameter (mm)	Weight (kg/km)	Rated Strength (kN)	DC Resistance at 20 °C (Ω/km)
Rose	21.14	12.90	7/1.96	5.88	58.30	3.96	1.3590
Iris	33.65	20.50	7/2.47	7.42	92.80	5.98	0.8539
Pansy	42.36	25.80	7/2.78	8.32	116.80	7.12	0.6783
Poppy	53.48	32.60	7/3.12	9.35	147.40	8.73	0.5373
Aster	67.47	41.20	7/3.50	10.51	186.00	11.01	0.4259
Phlox	84.98	51.80	7/3.39	11.79	234.30	13.46	0.3381
Oxlip	107.20	65.40	7/4.42	13.25	295.70	19.99	0.2679
Valerian	126.20	77.20	19/2.91	14.56	349.00	20.61	0.2269
Sneezewort	126.70	77.30	7/4.80	14.40	349.30	20.07	0.2268
Laurel	135.20	82.50	19/3.01	15.05	373.00	21.38	0.2125
Daisy	135.30	82.50	7/4.96	14.88	373.30	21.43	0.2124
Peony	152.10	92.80	19/3.19	15.96	419.00	24.05	0.1889
Tulip	170.60	104.00	19/3.38	16.90	470.30	26.97	0.1685
Daffodil	177.30	108.00	19/3.45	17.23	488.80	28.03	0.1621
Canna	201.60	123.00	19/3.68	18.37	555.80	31.86	0.1426
Goldentuft	228.00	139.10	19/3.91	19.54	628.60	34.99	0.1260
Syringa	241.50	147.30	37/2.88	20.18	665.80	38.47	0.1190
Cosmos	241.50	147.30	19/4.02	20.11	665.80	37.06	0.1190
Hyacinth	253.10	154.40	37/2.95	20.65	697.80	40.30	0.1135
Zinnia	253.30	155.00	19/4.12	20.60	698.30	38.87	0.1134
Dahlia	281.80	171.90	19/4.35	21.73	776.90	43.25	0.1020
Mistletoe	281.80	171.90	37/3.11	21.79	776.90	43.59	0.1020
Meadosweet	303.70	185.30	37/3.23	22.63	837.30	46.99	0.0946
Orchid	322.20	196.50	37/3.33	23.31	888.30	49.85	0.0892
Heuchera	329.60	201.10	37/3.37	23.57	908.70	51.00	0.0872
Flag	354.50	216.20	61/2.72	24.48	977.40	57.42	0.0811
Verbena	354.60	216.30	37/3.49	24.45	977.60	54.85	0.0815
Nasturtium	362.60	221.20	61/2.75	24.76	999.70	58.74	0.0793

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AAC (BS EN 50182)

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Violet	362.70	221.20	37/3.53	24.73	1000.00	56.11	0.0792
Cattail	380.20	231.90	61/2.82	25.35	1048.00	59.88	0.0756
Petunia	380.40	232.00	37/3.62	25.32	1049.00	58.81	0.0756
Arbutus	402.90	245.80	37/3.72	26.07	1111.00	62.35	0.0713
Lialc	403.20	246.00	61/2.90	26.11	1111.00	63.50	0.0713
Cckscomb	456.20	278.30	37/3.96	27.73	1257.00	68.49	0.0630
Snapdragon	456.30	278.30	61/3.07	27.77	1258.00	69.81	0.0630
Magnolia	483.60	295.00	37/4.08	28.55	1333.00	72.60	0.0594
Goldenrod	483.90	295.20	61/3.18	28.60	1334.00	74.03	0.0594
Camelia	506.40	308.90	61/3.25	29.26	1396.00	77.47	0.0568
Blue bell	523.40	319.30	37/4.24	29.71	1443.00	78.59	0.0549
Hawkweed	523.90	309.20	37/4.18	29.23	1397.00	76.09	0.0567
Larkspur	523.90	319.60	61/3.31	29.76	1444.00	80.16	0.0548
Marigold	564.30	344.20	61/3.43	30.89	1556.00	86.34	0.0509
Hawthom	604.10	368.50	61/3.55	31.96	1665.00	92.43	0.0496
Narcissus	644.60	393.20	61/3.67	33.01	1777.00	98.62	0.0446
Carnation	725.30	442.40	61/3.89	35.02	1999.00	107.71	0.0396
Gladiolus	765.80	467.10	61/3.99	35.98	2111.00	113.72	0.0375
Coreopisis	805.40	491.30	61/4.10	36.90	2220.00	119.60	0.0357
Jessamine	887.10	541.10	61/4.30	38.72	2445.00	131.73	0.0324
Cowslip	1013.00	617.90	91/3.76	41.40	2820.00	148.70	0.0284
Sagebrush	1139.00	694.80	91/3.99	43.92	3171.00	167.34	0.0252
Lupine	1266.00	772.30	91/4.21	46.30	3524.00	185.94	0.0227
Bitterroot	1393.00	849.80	91/4.42	48.56	3878.00	204.58	0.0206
Trillium	1520.00	927.20	127/3.90	50.75	4273.00	223.25	0.0189
Bluebonnet	1773.00	1081.50	127/4.22	54.81	4984.00	260.36	0.0162

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Midge	22.00	14.20	7/2.06	6.20	64.00	3.99	1.2270
Aphis	25.00	16.10	3/3.35	7.20	73.00	4.12	1.0810
Gnat	25.00	16.10	7/2.21	6.60	73.00	4.59	1.0662
Weevil	30.00	19.40	3/3.66	7.90	86.00	4.86	0.9082
Mosquito	35.00	22.60	7/2.59	7.80	101.00	6.03	0.7763
Ladybird	40.00	25.80	7/2.79	8.40	117.00	6.99	0.6687
Ant	50.00	32.30	7/3.10	9.30	145.00	8.28	0.5419
Fly	60.00	38.70	7/3.40	10.20	174.00	9.90	0.4505
Bluebottle	70.00	45.20	7/3.66	11.00	202.00	11.33	0.3887
Earwig	75.00	48.40	7/3.78	11.40	215.00	11.94	0.3645
Grasshopper	80.00	51.60	7/3.91	11.70	230.00	12.78	0.3405
Clegg	90.00	58.10	7/4.17	12.50	262.00	14.53	0.2994
Wasp	100.00	64.50	7/4.39	13.20	290.00	16.00	0.2700
Beetle	100.00	64.50	19/2.67	13.40	293.00	17.38	0.2703
Bee	125.00	80.60	7/4.90	14.70	361.00	19.94	0.2167
Cricket	150.00	96.80	7/5.36	16.10	432.00	23.80	0.1812
Hornet	150.00	96.80	19/3.25	16.30	434.00	25.70	0.1825
Caterpillar	175.00	113.00	19/3.53	17.70	512.00	28.62	0.1547
Chafer	200.00	129.00	19/3.78	18.90	587.00	32.40	0.1349
Spider	225.00	145.00	19/3.99	20.00	652.00	36.11	0.1211
Cockroach	250.00	161.00	19/4.22	21.10	731.00	40.40	0.1083
Butterfly	300.00	194.00	19/4.65	23.30	888.00	48.75	0.0891
Moth	350.00	226.00	19/5.00	25.00	1027.00	56.35	0.0771
Drone	350.00	226.00	37/3.58	25.10	1029.00	57.32	0.0774
Loucast	400.00	258.00	19/5.36	26.80	1179.00	64.76	0.0671
Centipede	400.00	258.00	37/3.78	26.50	1145.00	63.10	0.0694
Maybug	450.00	290.00	37/4.09	28.60	1340.00	73.89	0.0593
Scorpion	500.00	323.00	37/4.27	29.90	1460.00	80.03	0.0544
Cicada	600.00	387.00	37/4.65	32.60	1733.00	94.91	0.0459

## All Aluminium Conductor (AAC)

AAC (IEC 61089)

Code Name	Area (mm <sup>2</sup> )	Equivalent Copper Area (mm <sup>2</sup> )	Strands / Wire Diameter (mm)	Diameter (mm)	Weight (kg/km)	Rated Strength (kN)	DC Resistance at 20 °C (Ω/km)
10	10.00	6.10	7/1.35	4.05	27.40	1.95	2.8633
16	16.00	9.80	7/1.71	5.13	43.80	3.04	1.7896
25	25.00	15.30	7/2.13	6.39	68.40	4.50	1.1453
40	40.00	24.40	7/2.70	8.10	109.40	6.80	0.7158
63	63.00	38.40	7/3.39	10.17	172.30	10.39	0.4545
100	100.00	61.00	19/2.59	12.95	274.80	17.00	0.2877
125	125.00	76.30	19/2.89	14.45	343.60	21.25	0.2302
160	160.00	97.60	19/3.27	16.35	439.80	26.40	0.1798
200	200.00	122.00	19/3.66	18.30	549.70	32.00	0.1439
250	250.00	152.50	19/4.09	20.45	687.10	40.00	0.1151
315	315.00	192.20	37/3.29	23.03	867.90	51.97	0.0916
400	400.00	244.00	37/3.71	25.97	1102.00	64.00	0.0721
450	450.00	274.50	37/3.94	27.58	1239.80	72.00	0.0641
500	500.00	305.00	37/4.15	29.05	1377.60	80.00	0.0577
560	560.00	341.60	37/4.39	30.73	1542.90	89.60	0.0515
630	630.00	384.30	61/3.63	32.67	1738.30	100.80	0.0458
710	710.00	433.10	61/3.85	34.65	1959.10	113.60	0.0407
800	800.00	488.00	61/4.09	36.81	2207.40	128.00	0.0361
900	900.00	549.00	61/4.33	38.97	2483.30	144.00	0.0321
1000	1000.00	610.00	61/4.57	41.13	2759.20	160.00	0.0289
1120	1120.00	683.20	91/3.96	43.56	3093.50	179.20	0.0258
1250	1250.00	762.50	91/4.18	45.98	3452.60	200.00	0.0231
1400	1400.00	854.00	91/4.43	48.73	3866.90	224.00	0.0207
1500	1500.00	915.00	91/4.58	50.38	4143.10	240.00	0.0193

## All Aluminium Conductor (AAC)

AAC (DIN 48201-5)							
Area (mm <sup>2</sup> )		Equivalent Copper Area (mm <sup>2</sup> )	Strands (mm)	Diameter (mm)	Weight (kg/km)	Rated Strength (kN)	DC Resistance at 20°C (Ω/km)
Nominal	Actual						
16.00	15.89	10.00	7/1.70	5.10	43.00	2.84	1.8017
25.00	24.25	15.00	7/2.10	6.30	66.00	4.17	1.1806
35.00	34.36	21.00	7/2.50	7.50	94.00	5.78	0.8332
50.00	49.48	30.00	7/3.00	9.00	135.00	7.94	0.5786
50.00	48.36	29.00	19/1.80	9.00	133.00	8.45	0.5948
70.00	65.82	40.00	19/2.10	10.50	181.00	11.32	0.4370
95.00	93.27	57.00	19/2.50	12.50	256.00	15.68	0.3084
120.00	117.00	71.00	19/2.80	14.00	322.00	18.78	0.2459
150.00	147.10	90.00	37/2.25	15.80	406.00	25.30	0.1960
185.00	181.60	111.00	37/2.50	17.50	500.00	30.54	0.1588
240.00	242.50	148.00	61/2.25	20.30	670.00	39.51	0.1192
300.00	299.40	183.00	61/2.50	22.50	827.00	47.70	0.0965
400.00	400.10	244.00	61/2.89	26.00	1104.00	60.86	0.0722
500.00	499.80	305.00	61/3.23	29.10	1379.00	74.67	0.0578
625.00	626.20	382.00	91/2.96	32.60	1732.00	95.25	0.0463
800.00	802.10	489.00	91/3.35	36.90	2218.00	118.39	0.0361
1000.00	999.70	610.00	91/3.74	41.10	2767.00	145.76	0.0290