



AAC (All Aluminum Conductor)

American Sizes ASTM B231/B231M-04

Code Word	Stranding & Wire Diameter	Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
	mm						
Peachbell	7/1.56	4.68	13.30	36.6	2.53	2.1690	103
Rose	7/1.96	5.88	21.10	58.2	3.91	1.3620	138
Iris	7/2.47	7.41	33.60	92.6	5.99	0.8574	185
Pansy	7/2.78	8.34	42.40	116.6	7.30	0.6801	214
Poppy	7/3.12	9.36	53.50	147.2	8.84	0.5390	247
Aster	7/3.50	10.50	67.40	185.7	11.10	0.4276	286
Phlox	7/3.93	11.79	85.00	233.9	13.50	0.3390	331
Oxlip	7/4.42	13.26	107.20	295.2	17.00	0.2688	383
Valerian	19/2.91	14.55	126.70	348.6	20.70	0.2275	425
Sneezewort	7/4.80	14.40	126.70	348.8	20.10	0.2275	425
Laurel	19/3.10	15.05	135.20	372.2	22.10	0.2133	443
Daisy	7/4.96	14.88	135.20	372.3	21.40	0.2133	443
Peony	19/3.19	15.95	152.00	418.3	24.30	0.1896	478
Tulip	19/3.38	16.90	170.50	469.5	27.30	0.1695	513
Daffodil	19/3.45	17.25	177.30	487.9	28.40	0.1625	526
Canna	19/3.67	18.35	201.40	554.9	31.60	0.1423	570
Goldentuft	19/3.91	19.55	228.00	627.6	35.00	0.1264	616
Syringa	37/2.88	20.16	242.00	664.8	38.60	0.1193	639
Cosmos	19/4.02	20.10	242.00	664.8	37.00	0.1193	639
Hyacinth	37/2.95	20.65	253.30	696.8	40.50	0.1137	658
Zinnia	19/4.12	20.60	253.30	697.1	38.90	0.1137	658
Dahlia	19/4.35	21.75	282.00	775.8	43.30	0.1023	703
Mistletoe	37/3.12	21.84	282.00	775.7	44.30	0.1023	704
Meadowsweet	37/3.23	22.61	304.00	836.3	47.50	0.0948	738
Orchid	37/3.33	23.31	323.30	886.9	50.40	0.0893	765
Heuchera	37/3.37	23.59	329.40	907.4	51.70	0.0875	775
Flag	61/2.72	24.48	354.70	975.8	57.10	0.0813	812
Verbena	37/3.49	24.43	354.70	975.7	55.40	0.0813	812
Nasturtium	61/2.75	24.75	362.60	998.5	58.40	0.0795	823
Violet	37/3.53	24.71	362.60	998.5	56.70	0.0795	823
Cattail	61/2.82	25.38	380.00	1046.0	60.30	0.0759	847
Petunia	37/3.62	25.34	380.00	1046.0	58.60	0.0759	847
Lilac	61/2.90	26.10	402.80	1110.0	63.80	0.0715	878
Arbustus	37/3.72	26.04	402.80	1109.0	61.80	0.0715	878
Snapdragon	61/3.09	27.81	456.00	1256.0	70.80	0.0632	948
Cockscomb	37/3.96	27.72	456.00	1256.0	68.40	0.0632	948
Goldenrod	61/3.18	28.62	483.40	1331.0	75.00	0.0596	982
Magnolia	37/4.08	28.56	483.40	1331.0	72.60	0.0596	982
Camellia	61/3.25	29.25	506.70	1394.0	78.30	0.0596	1010
Hawkweed	37/4.18	29.26	506.70	1395.0	76.20	0.0596	1010
Larkspur	61/3.31	29.79	523.70	1442.0	81.30	0.0550	1031
Bluebell	37/4.25	29.75	523.70	1441.0	78.80	0.0550	1031
Marigold	61/3.43	30.87	564.00	1553.0	87.30	0.0511	1079
Hawthorn	61/3.55	31.95	604.20	1662.0	93.50	0.0447	1124
Narcissus	61/3.67	33.03	644.50	1774.0	98.10	0.0447	1169
Columbine	61/3.78	34.02	694.80	1884.0	104.00	0.0421	1212
Carnation	61/3.89	35.01	725.10	1997.0	108.00	0.0398	1253
Gladiolus	61/4.00	36.00	765.41	2108.0	114.00	0.0376	1294
Coreopsis	61/4.10	36.90	805.70	2216.0	120.00	0.0358	1333
Jessamine	61/4.30	38.70	886.70	2442.0	132.00	0.0325	1408
Cowslip	91/3.77	41.47	1013.00	2787.0	153.00	0.0284	1518
Sagebrush	91/3.99	43.89	1140.00	3166.0	167.00	0.0255	1612
Lupine	91/4.21	46.31	1267.00	3519.0	186.00	0.0230	1706
Bitterroot	91/4.42	48.62	1393.00	3872.0	205.00	0.0209	1793
Trillium	127/3.90	50.70	1520.00	4226.0	223.00	0.0191	1874
Bluebonnet	127/4.22	54.86	1773.00	4977.0	261.00	0.0166	2024



Canadian Sizes CSA C 49-1965

Code Word	Stranding & Wire Diameter	Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
	mm						
Rose	7/1.96	5.89	21.16	58	4.1	1.3510	104
Lily	7/2.20	6.61	26.65	73	5.0	1.0720	124
Iris	7/2.47	7.42	33.61	92	6.2	0.8497	136
Pansy	7/2.77	8.33	42.39	116	7.6	0.6739	157
Poppy	7/3.12	9.36	53.48	146	9.2	0.5341	180
Aster	7/3.50	10.51	67.42	184	11.6	0.4236	207
Phlox	7/3.93	11.80	85.03	232	14.1	0.3360	237
Oxlip	7/4.41	13.25	107.23	293	17.7	0.2664	273
Daisy	7/4.96	14.90	135.16	369	22.4	0.2113	313
Valerian	19/2.91	14.57	126.71	348	22.3	0.2274	305
Laurel	19/3.01	15.05	135.16	372	23.8	0.2129	317
Peony	19/3.19	15.97	152.00	417	26.2	0.1880	340
Tulip	19/3.38	16.91	170.45	467	29.4	0.1638	364
Daffodil	19/3.44	17.24	177.35	488	30.6	0.1624	373
Canna	19/3.67	18.36	201.42	554	34.0	0.1427	401
-	19/3.68	18.43	202.71	558	34.2	0.1421	402
Goldentuft	19/3.90	19.55	228.00	626	37.7	0.1263	432
Cosmos	19/4.02	20.12	241.68	664	40.0	0.1188	447
Zinnia	19/4.12	20.60	253.35	695	41.9	0.1132	459
Dahlia	19/4.34	21.73	282.00	774	46.7	0.1018	489
-	37/3.09	21.67	278.71	768	48.0	0.1033	485
Meadowsweet	37/3.23	22.63	304.00	838	52.4	0.0948	513
Orchid	37/3.33	23.31	322.26	888	55.6	0.0896	531
Heuchera	37/3.36	23.56	329.35	908	56.8	0.0876	538
Varbena	37/3.49	24.45	354.71	978	61.1	0.0814	562
Violet	37/3.53	24.74	362.58	1000	62.5	0.0797	570
Patunia	37/3.61	25.32	380.00	1048	64.2	0.0758	585
Arbutus	37/3.72	26.06	402.84	1112	68.1	0.0715	605
-	37/3.73	26.14	405.35	1118	68.5	0.0712	608
Anemone	37/3.90	27.33	443.10	1222	73.3	0.0653	641
Cockscomb	37/3.96	27.73	456.06	1257	75.4	0.0633	657
Magnolia	37/4.07	28.55	483.42	1333	80.0	0.0597	675
Hawkweed	37/4.17	29.23	506.71	1396	83.8	0.0568	693
Bluebell	37/4.24	29.72	523.68	1445	86.6	0.0551	706
-	61/3.41	30.70	557.35	1539	96.1	0.0518	733
Marigold	61/3.43	30.89	563.93	1559	97.2	0.0512	738
Hawthorn	61/3.55	31.95	604.26	1670	104.1	0.0479	767
-	61/3.56	32.08	608.06	1679	102.7	0.0476	771
Narcissus	61/3.66	33.02	644.51	1781	108.8	0.0450	797
-	61/3.70	33.37	658.71	1818	111.2	0.0440	807
Columbine	61/3.78	34.01	684.84	1893	115.6	0.0423	825
-	61/3.84	34.63	709.42	1958	117.4	0.0407	842
Carnation	61/3.89	35.03	725.10	2004	119.9	0.0400	854
-	61/3.98	35.85	760.06	2098	125.7	0.0381	877
Gladiolus	61/3.99	35.99	765.35	2116	126.5	0.0377	881
Coreopsis	61/4.09	36.91	805.68	2226	133.2	0.0358	907
-	61/4.11	37.04	810.71	2238	134.1	0.0358	910
-	61/4.23	38.15	861.42	2378	142.6	0.0335	942
-	61/3.57	39.28	912.06	2521	153.9	0.0316	975



British Sizes BS EN 50182:2001(BS215 Part 1:1970)

Code Word	Stranding & Wire Diameter		Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
	mm	mm						
23-AL1	Midge	7/2.06	6.18	22	64	3.99	1.22700	114
27-AL1	Gnat	7/2.21	6.63	--	73	4.83	1.0643	124
37-AL1	Mosquito	7/2.59	7.77	--	101	6.27	0.7749	144
43-AL1	Ladybird	7/2.79	8.37	--	117	7.28	0.6678	159
53-AL1	Ant	7/3.10	9.30	50	145	8.28	0.54190	181
64-AL1	Fly	7/3.40	10.20	60	174	9.9	0.45050	199
74-AL1	Bluebottle	7/3.66	10.98	--	201	11.78	0.3880	219
79-AL1	Earwig	7/3.78	11.34	--	215	12.57	0.3638	227
84-AL1	Grasshopper	7/3.91	11.73	--	230	13.46	0.3400	238
96-AL1	Clegg	7/4.17	12.51	--	261	15.30	0.2989	256
106-AL1	Wasp	7/4.39	13.17	100	290	16.00	0.27020	271
106-AL1	Beetle	19/2.67	13.35	--	292	18.08	0.2701	274
132-AL1	Bee	7/4.90	14.70	--	361	21.12	0.2165	308
158-AL1	Homert	19/3.25	16.25	150	434	25.70	0.18250	346
186-AL1	Caterpillar	19/3.53	17.65	--	511	29.75	0.1546	380
213-AL1	Chafer	19/3.78	18.90	200	587	32.40	0.13490	414
238-AL1	Spider	19/3.99	19.95	--	653	38.01	0.1210	439
266-AL1	Cockroach	19/4.22	21.10	250	731	40.40	0.10830	470
323-AL1	Butterfly	19/4.65	23.25	300	888	48.75	0.08916	528
373-AL1	Centipede	37/3.78	26.46	400	1145	63.10	0.06944	619
415-AL1	Moth	19/5.00	25.00	--	1025	59.69	0.0770	572
372-AL1	Drone	37/3.58	25.06	--	1027	59.59	0.0774	572
486-AL1	Maybug	37/4.09	28.63	--	1340	77.78	0.593	676
530-AL1	Scorpion	37/4.27	29.89	--	1461	84.77	0.0544	710
628-AL1	Cicada	37/4.65	32.55	--	1732	100.54	0.0459	784

IEC Sizes IEC 61089:1991

Code Word	Stranding & Wire Diameter		Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
	mm	mm						
10	7/1.35	4.05	10	27.4	1.95	2.8053		
16	7/1.71	5.12	16	43.8	3.04	1.7896		
25	7/2.13	6.40	25	68.4	4.50	1.1453		
40	7/2.70	8.09	40	109.4	6.80	0.7158		
63	7/3.39	10.20	63	172.3	10.39	0.4545		
100	19/2.59	12.90	100	274.8	17.00	0.2877		
125	19/2.89	14.50	125	343.8	21.25	0.2302		
160	19/3.27	16.40	160	439.8	26.40	0.1798		
200	19/3.66	18.30	200	549.7	32.00	0.1439		
250	19/4.09	20.50	250	687.1	40.00	0.1151		
315	37/3.29	23.00	315	867.9	51.97	0.0916		
400	37/3.71	26.00	400	1102.0	64.00	0.0721		
450	37/3.94	27.50	450	1239.8	72.00	0.0641		
500	37/4.15	29.00	500	1377.6	80.00	0.0577		
560	37/4.39	30.70	560	1542.9	89.60	0.0515		
630	61/3.63	32.60	630	1738.3	100.80	0.0458		
710	61/3.85	34.60	710	1959.1	113.60	0.0407		
800	61/4.09	36.80	800	2207.4	128.00	0.0361		
900	61/4.33	39.00	900	2483.3	144.00	0.0321		
1000	61/4.57	41.10	1000	2759.2	160.00	0.0289		
1120	91/3.96	43.50	1120	3093.5	179.20	0.0258		
1250	91/4.18	46.00	1250	3452.6	200.00	0.0231		
1400	91/4.43	48.70	1400	3866.9	224.00	0.0207		
1500	91/4.58	50.40	1500	4143.1	240.00	0.0193		



German Sizes DIN EN 50182(OLD STANDART DIN 48 201-Part 5)

New Code	Old Code	Stranding & Wire Diameter	Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
		mm	mm	mm ²	kg/km	kN	ohm/km	A
16-AL1	16	7/1.70	5.1	15.9	43.4	3.02	1.7986	110
24-AL1	25	7/2.10	6.3	24.2	66.3	4.36	1.1787	144
34-AL1	35	7/2.50	7.5	34.4	93.9	6.01	0.8317	180
49-AL1	50	7/3.00	9.0	49.5	135.2	8.41	0.5776	225
48-AL1	50	19/1.80	9.0	48.3	132.9	8.94	0.5944	225
66-AL1	70	19/2.10	10.5	65.8	180.9	11.85	0.4367	270
93-AL1	95	19/2.50	12.5	93.3	256.3	16.32	0.3081	340
117-AL1	120	19/2.80	14.0	117.0	321.5	19.89	0.2456	390
147-AL1	150	37/2.25	15.8	147.1	405.7	26.48	0.1960	455
182-AL1	185	37/2.50	17.5	181.6	500.9	31.78	0.1588	520
243-AL1	240	61/2.25	20.3	242.5	671.1	43.66	0.1193	625
299-AL1	300	61/2.50	22.5	299.4	828.5	52.40	0.0966	710
400-AL1	400	61/2.89	26.0	400.1	1107.1	68.02	0.0723	855
500-AL1	500	61/3.23	29.1	499.8	1382.9	82.47	0.0579	990
626-AL1	625	91/2.69	32.6	626.2	1739.7	106.45	0.0464	1140
802-AL1	800	91/3.35	36.9	802.1	2218.3	132.34	0.0362	1340
1000-AL1	1000	91/3.74	41.1	999.7	2777.3	159.95	0.0291	1540