ASTM B231

All Aluminum Stranded Conductor (AAC)

Code Name	Total Area		Stranding and Wire Diameter	Overall Diameter	Linear Mass	Nominal Breaking Load	Max DC Resistance at 20°C
	AWG or MCM	mm2	mm	mm	kg/km	daN	Ω/km
Peachbell	6	13.29	7/1.554	4.67	37	249	**2.1692**
Rose	4	21.16	7/1.961	5.89	58	396	**1.3624**
Iris	2	33.61	7/2.474	7.42	93	597	**0.8577**
Pansy	1	42.39	7/2.776	8.33	117	732	**0.6801**
Poppy	1/0	53.48	7/3.119	9.36	147	873	**0.5390**
Aster	2/0	67.42	7/3.503	10.51	186	1100	**0.4276**
Phlox	3/0	85.03	7/3.932	11.80	234	1347	**0.3390**
Oxlip	4/0	107.23	7/4.417	13.26	293	1698	**0.2688**
Valerian	250	126.71	19/2.913	14.57	349	2062	**0.2275**
Sneezewort	250	126.71	7/4.80	14.40	349	2007	**0.2275**
Laurel	266.8	135.16	19/3.01	15.05	373	2200	**0.2133**
Daisy	266.8	135.16	7/4.96	14.90	373	2141	**0.2133**
Peony	300	152.00	19/3.193	15.97	419	2403	**0.1896**
Tulip	336.4	170.45	19/3.381	16.91	470	2695	**0.1691**
Daffodil	350	177.35	19/3.447	17.24	489	2804	**0.1625**
Canna	397.5	201.42	19/3.673	18.36	555	3184	**0.1431**
Goldentuft	450	228.00	19/3.909	19.55	629	3499	**0.1264**
Syringa	477	241.68	37/2.882	20.19	666	3849	**0.1193**
Cosmos	477	241.68	19/4.023	20.12	666	3708	**0.1193**
Hyacinth	500	253.35	37/2.951	20.65	698	4035	**0.1138**
Zinnia	500	253.35	19/4.12	20.60	698	3888	**0.1138**
Dahlia	556.5	282.00	19/4.346	21.73	777	4327	**0.1022**
Mistletoe	556.5	282.00	37/3.114	21.79	777	4362	**0.1022**
Meadowsweet	600	304.00	37/3.233	22.63	838	4703	**0.0948**
Orchid	636	322.25	37/3.33	23.31	888	4985	**0.0894**
Heuchera	650	329.35	37/3.366	23.56	908	5095	**0.0875**
Flag	700	354.71	61/2.72	24.48	978	5146	**0.0813**
Verbena	700	354.71	37/3.493	24.45	978	5487	**0.08130**
Nasturtium	**715.5**	**362.58**	**61/2.75**	**24.76**	**1000**	**5874**	**0.07950**

ASTM B231

All Aluminum Stranded Conductor (AAC)

Code Name	Total Area		Stranding and Wire Diameter	Overall Diameter	Linear Mass	Nominal Breaking Load	Max DC Resistance at 20°C
	AWG or MCM	mm2	mm	mm	kg/km	daN	Ω/km
Violet	715.5	362.85	37/3.533	24.74	1000	5609	**0.07950**
Cattail	750	380.00	61/2.817	25.35	1048	5985	**0.07590**
Petunia	750	380.00	37/3.617	25.32	1048	5875	**0.07590**
Lilac	795	402.84	61/2.90	26.11	1111	6345	**0.07150**
Arbutus	795	402.84	37/3.724	26.06	1111	6232	**0.07150**
Snapdragon	900	456.06	61/3.086	27.78	1257	6978	**0.06320**
Cockscomb	900	456.06	37/3.962	27.73	1257	6948	**0.06320**
Goldenrod	954	483.42	61/3.177	28.60	1333	7896	**0.05960**
Magnolia	954	483.42	37/4.079	28.55	1333	7258	**0.05960**
Camellia	1000	506.71	61/3.251	29.36	1397	7753	**0.05690**
Hawkweed	1000	506.71	37/4.176	29.23	1397	7608	**0.05690**
Larkspur	1033.5	523.68	61/3.307	29.76	1444	8012	**0.05500**
Bluebell	1033.5	523.68	37/4.244	29.72	1444	7863	**0.05500**
Marigold	1113	563.93	61/3.432	30.89	1555	8628	**0.05110**
Hawthorn	1192.5	604.26	61/3.551	31.05	1666	9245	**0.04770**
Narcissus	1272	644.51	61/3.668	33.02	1777	9861	**0.04770**
Columbine	1351.5	684.84	61/3.78	34.01	1888	10478	**0.04210**
Carnation	1431	725.10	61/3.89	35.03	1999	10768	**0.03980**
Gladiolus	1510.5	765.35	61/4.00	35.09	2110	11365	**0.03760**
Coreopsis	1590	805.68	61/4.099	36.51	2221	11964	**0.03568**
Jessamine	1750	886.71	61/4.302	38.72	2445	13168	**0.03250**
Cowslip	2000	1013.42	91/3.76	41.40	2791	15300	**0.02866**
Lupine	2500	1266.67	91/4.21	46.30	3524	18700	**0.02300**
Trillium	3000	1520.13	127/3.90	50.75	4232	22500	**0.01920**
Bluebonnet	**3500**	**1773.50**	**127/4.21**	**54.80**	**4985**	**26200**	0.01653

BS 215

All Aluminum Stranded Conductor (AAC)

Code Name	Nominal Cross Section	No./Dia. of Stranding Wires	Sectional Area	Overall Diameter	Linear Weight	Max. DC Resistance of Conductor at 20°C	Calculated Breaking Load	Final Modulus of Elasticity	Coefficient of Linear Expansion
	mm2	No./mm	mm2	mm	kg/km	Ω/km	daN	hbar	/℃
Midge	22	7/2.06	23.33	6.18	64	1.2270	399	5900	23×10-6
Aphis	25	3/3.35	26.40	7.20	73	1.0810	411	5900	23×10-6
Gnat	25	7/2.21	26.80	6.60	73	1.0660	459	5900	23×10-6
Weevil	30	3/3.66	31.60	7.90	86	0.9082	486	5900	23×10-6
Mosquito	35	7/2.59	37.00	7.80	101	0.7762	603	5900	23×10-6
Ladybird	40	7/2.79	42.80	8.40	117	0.6689	687	5900	23×10-6
Ant	50	7/3.10	52.83	9.30	145	0.5419	828	5900	23×10-6
Fly	60	7/3.40	63.55	10.20	174	0.4505	990	5900	23×10-6
Bluebottle	70	7/3.66	73.70	11.00	202	0.3881	1134	5900	23×10-6
Earwing	75	7/3.78	78.50	11.40	215	0.3644	1194	5900	23×10-6
Grasshopper	80	7/3.91	84.10	11.70	230	0.3406	1278	5900	23×10-6
Clegg	90	7/4.17	95.60	12.50	262	0.2994	1453	5900	23×10-6
Wasp	100	7/4.39	106.00	13.17	290	0.2702	1600	5900	23×10-6
Beetle	100	19/2.67	106.00	13.40	293	0.2704	1742	5600	23×10-6
Bee	125	7/4.90	132.00	14.70	361	0.2169	1944	5900	23×10-6
Cricket	150	7/5.36	157.90	16.10	432	0.1818	2385	5900	23×10-6
Hornet	150	19/3.25	157.60	16.25	434	0.1825	2570	5600	23×10-6
Caterpillar	175	19/3.53	186.00	17.70	512	0.1547	2863	5600	23×10-6
Chafer	200	19/3.78	213.20	18.90	587	0.1349	3240	5600	23×10-6
Spider	225	19/3.99	236.90	20.00	652	0.1211	3601	5600	23×10-6
Cockroach	250	19/4.22	265.70	21.10	731	0.1083	4040	5600	23×10-6
Butterfly	300	19/4.65	322.70	23.25	888	0.0892	4875	5600	23×10-6
Moth	350	19/5.00	373.20	25.00	1027	0.0771	5637	5600	23×10-6
Drone	350	37/3.58	373.30	25.10	1029	0.0774	5745	5600	23×10-6
Locust	400	19/5.36	428.50	26.80	1179	0.0671	6473	5600	23×10-6
Centipede	400	37/3.78	415.20	26.46	1145	0.0694	6310	5600	23×10-6
Maybug	450	37/4.09	486.90	28.60	1342	0.0593	7401	5600	23×10-6
Scorpion	500	37/4.27	529.50	29.90	1460	0.0544	7998	5600	23×10-6
Cicada	600	37/4.65	628.60	32.60	1733	0.0459	9495	5600	23×10-6
Tarantula	**750**	**37/5.23**	**794.60**	**36.60**	**2191**	**0.0363**	**12010**	**5600**	23×10-6

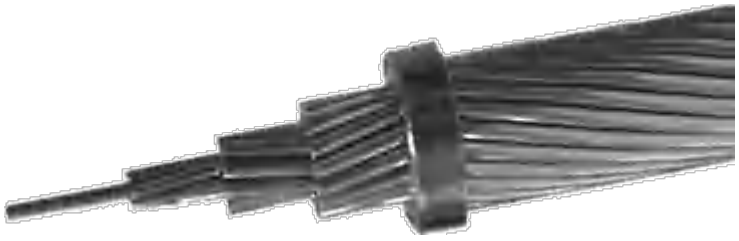
IEC 61089

All Aluminum Stranded Conductor (AAC)

Cross Section	No. of Stranding Wires	Diameter		Linear Mass	Rated Strength	Max. DC Resistance at 20°C
		Wires	Conductor			
mm2	-	mm	mm	kg/km	k N	Ω/km
10	7	1.35	4.05	27.4	1.95	**2.8633**
16	7	1.71	5.12	43.8	3.04	**1.7896**
25	7	2.13	6.40	68.4	4.50	**1.1453**
40	7	2.7	8.09	109.4	6.80	**0.7158**
63	7	3.39	10.20	172.3	10.39	**0.4545**
100	19	2.59	12.90	274.8	17.00	**0.2877**
125	19	2.89	14.50	343.6	21.25	**0.2302**
160	19	3.27	16.40	439.8	26.40	**0.1798**
200	19	3.66	18.30	549.7	32.00	**0.1439**
250	19	4.09	20.50	687.1	40.00	**0.1151**
315	37	3.29	23.00	867.9	51.97	**0.0916**
400	37	3.71	26.00	1102.0	64.00	**0.0721**
450	37	3.94	27.50	1239.8	72.00	**0.0641**
500	37	4.15	29.00	1377.6	80.00	**0.0577**
560	37	4.39	30.70	1542.9	89.60	**0.0515**
630	61	3.63	32.60	1738.3	100.08	**0.0458**
710	61	3.85	34.60	1959.1	113.60	**0.0407**
800	61	4.09	36.80	2207.4	128.00	**0.0361**
900	61	4.33	39.00	2483.3	144.00	**0.0321**
1000	61	4.57	41.10	2759.2	160.00	**0.0289**
1120	91	3.96	43.50	3093.5	179.20	**0.0258**
1250	91	4.18	46.00	3452.6	200.00	**0.0231**
1400	91	4.43	48.70	3866.9	224.00	**0.0207**
1500	**91**	**4.58**	**50.40**	**4143.1**	**240.00**	**0.0193**

DIN 48201

All Aluminum Stranded Conductor (AAC)



DIN 48201

Code Number	Calculated Cross Section	No./Dia. of Stranding Wire	Overall Diameter	Linear Mass	Calculated Breaking Load	Max. DC Resistance at 20°C
mm²	mm²	No./mm	mm	kg/km	daN	Ω/km
16	15.89	7/1.70	5.1	44	290	1.8018
25	24.25	7/2.10	6.3	67	425	1.1808
35	34.36	7/2.50	7.5	94	585	0.8332
50	49.48	7/3.00	9.0	135	810	0.5786
50	48.36	19/1.80	9.0	133	860	0.5950
70	65.82	19/2.10	10.5	181	1150	0.4371
95	93.27	19/2.50	12.5	256	1595	0.3084
120	117.00	19/2.80	14.0	322	1910	0.2459
150	147.10	37/2.25	15.2	406	2570	0.1960
185	181.60	37/2.50	17.5	501	3105	0.1587
240	242.54	61/2.25	20.2	670	4015	0.1191
300	299.43	61/2.50	22.5	827	4850	0.0965
400	400.14	61/2.89	26.0	1105	6190	0.0722
500	499.83	61/3.23	29.1	1381	7600	0.0578
625	626.20	91/2.96	32.6	1733	9690	0.0463
800	802.10	91/3.35	36.8	2219	12055	0.0361
1000	999.71	91/3.74	41.1	2766	14845	0.0290