

ALL ALUMINIUM STANDARD CONDUCTORS – BARE (TO BS: 215 PART 1)

Code Word	Aluminium Area mm ²	Standard Nominal Copper Area/mm ²	Standing Number & Diameter Of Wires mm		Diameter of Conductor mm	Rated Ultimate Strength Kg.	D-C Resistance at 20 °C	Weight Kg/Km.
			No.	Diameter			/Km.	
Midge	23.29	14.19	7	2.06	6.17	430	1.22700	63.5
Aphis	26.45	16.13	3	3.35	7.21	445	1.08100	72.5
Gnat	26.84	16.13	7	2.21	6.63	490	1.06400	73.4
Weevil	31.55	19.35	3	3.66	7.87	520	0.90780	86.3
Mosquito	36.90	22.58	7	2.59	7.77	645	0.77420	100.9
Ladybird	42.90	25.81	7	2.79	8.38	740	0.66550	117.3
Ant	52.77	32.26	7	3.1	9.3	890	0.54110	144.3
Fly	63.68	38.71	7	3.4	10.21	1050	0.44860	174.0
Bluebottle	73.55	45.16	7	3.66	10.97	1195	0.38840	201.0
Earwig	78.77	48.39	7	3.78	11.37	1275	0.36280	215.3
Grasshopper	84.13	51.61	7	3.91	11.73	1355	0.33950	229.9
Clegg	95.35	58.06	7	4.17	12.50	1520	0.29950	260.7
Wasp	106.2	64.52	7	4.39	13.18	1675	0.26910	290.0
Beetle	106.10	64.52	19	2.67	13.33	1810	0.27050	292.0
Bee	132.10	80.64	7	4.90	14.71	2060	0.21620	362.0
Cricket	157.90	96.77	7	5.36	16.08	2450	0.18090	432.0
Hornet	157.70	96.77	19	3.25	16.26	2575	0.18210	433.0
Caterpillar	185.90	112.90	19	3.53	17.65	2985	0.15440	510.0
Chafer	213.80	129.00	19	3.78	18.92	3390	0.13430	588.0
Spider	237.30	145.20	19	3.99	19.94	3735	0.12100	652.0
Cockroach	265.30	161.30	19	4.22	21.08	4135	0.10820	729.0
Butterfly	322.40	193.50	19	4.65	23.24	4940	0.08910	885.0
Moth	373.60	225.80	19	5.00	25.02	5700	0.07686	1027.0
Drone	372.60	225.80	37	3.58	25.07	5730	0.07748	1030.0
Locust	428.60	258.10	19	5.36	26.80	6515	0.06698	1177.0
Centipede	416.30	258.10	37	3.78	26.49	6325	0.06941	1150.0
Maybug	486.00	290.30	37	4.09	28.63	7290	0.05943	1342.0
Scorpion	529.00	322.60	37	4.27	29.87	7870	0.05459	1463.0
Cicada	627.80	387.10	37	4.65	32.54	9210	0.04601	1735.0
Tarantula	795.60	483.90	37	5.23	36.63	11570	0.03630	2198.0



ALL ALUMINIUM CONDUCTORS – BARE (AMERICAN SIZES)

Code Name	Equivalent Copper size		Aluminium stranding No. and diameter		Dia. of complete Cable mm	Aluminium area of complete cable		Approx. ultimate Tensile Strength Kg	Standard Resistance at 20 °C /Km.	Wt. in Kg/km.
	AWG	Nominal area mm ²	No.	Dia. mm.		Gauge AWG	mm ²			
Rose	6	13.3	7	1.961	5.883	4	21.15	415	1.351	57.7
Lily	5	16.77	7	2.202	6.606	3	26.67	515	1.072	72.8
Iris	4	21.15	7	2.474	7.442	2	33.62	635	0.85	91.8
Pansy	3	26.67	7	2.776	8.328	1	42.41	775	0.674	115.8
Poppy	2	33.62	7	3.119	9.357	1/0	53.49	940	0.534	146.1
Aster	1	42.41	7	3.503	10.509	2/0	67.43	1185	0.424	184.2
Phlox	1/0	53.49	7	3.932	11.796	3/0	85.01	1435	0.336	232.3
Oxlip	2/0	67.43	7	4.417	13.251	4/0	107.20	1810	0.267	292.9
Daisy	3/0	85.01	7	4.958	14.874	266,800	135.20	2280	0.211	369.2
Peony	188,800	95.60	19	3.193	15.965	300,000	152.00	2670	0.189	417.4
Tulip	4/00	107.20	19	3.381	16.905	336,400	170.50	2995	0.168	467.3
Canna	250,000	126.70	19	3.673	18.365	397,500	201.40	3470	0.142	553.0

ALUMINIUM CONDUCTOR STEEL REINFORCED – BARE (AMERICAN SIZE)

Code Word	Aluminium Area		Area of Complete Conductor mm ²	Copper Equivalent mm ²	Standing No. and Dia. Of Wires mm.				Diameter mm		Rated Ultimate Tensile Strength (kg)	D-C Resistance at 20 °C (/km)	Weight kg/km		
	Circular Mils	mm ²			Aluminium		Steel		Complete Conductor	Steel Core			Total	Alum.	Steel
					No.	Dia.	No.	Dia.							
Chickadee	397500	201.42	212.58	126.68	18	3.77	1	3.77	18.87	3.77	4717	0.14270	641.5	554.4	87.1
Pelican	477000	241.68	255.10	152.01	18	4.14	1	4.14	20.68	4.14	5579	0.11890	770.9	666.3	104.6
Flicker	477000	241.68	273.03	152.01	24	3.58	7	2.39	21.48	7.16	7802	0.11950	914.1	669.7	244.4
Osprey	556500	282.00	297.68	177.35	18	4.47	1	4.47	22.33	4.47	6509	0.10180	898.8	776.8	122.0
Parakeet	556500	282.00	318.52	177.35	24	3.87	7	2.58	23.22	7.75	9004	0.10250	1066.8	7813	285.5
Peacock	605000	306.58	346.39	192.80	24	4.03	7	2.69	24.21	8.08	9798	0.09420	1159.2	849.8	309.5
Squab	605000	306.58	356.45	192.80	26	3.87	7	3.01	24.54	9.40	10954	0.09420	1267.8	849.8	389.8
Teal	605000	306.58	376.45	192.80	30	3.61	19	2.16	25.25	10.82	13630	0.09432	1397.4	851.2	546.2
Rook	636000	322.26	364.00	202.68	24	4.14	7	2.76	24.82	8.28	10274	0.08966	1218.7	892.9	325.8
Flamingo	666600	337.74	381.55	212.31	24	4.23	7	2.82	25.40	8.46	10773	0.08550	1277	936.0	341.0
Tern	795000	402.84	430.71	253.35	45	3.38	7	2.25	27.00	6.76	10410	0.07177	1333	1116.0	217.0
Rail	954000	483.42	516.84	304.03	45	3.70	7	2.47	29.59	7.39	12202	0.05981	1600	1339.0	216.0
Ortlan	1033500	523.68	559.93	329.36	45	3.85	7	2.57	30.81	7.70	13041	0.05522	1734	1451.0	283.0
Bluejay	111300	563.93	602.97	354.70	45	4.00	7	2.66	31.98	8.00	14039	0.05127	1875	1570.0	305.0
Bunting	1192500	604.26	646.00	380.03	45	4.14	7	2.76	33.07	8.28	15059	0.04785	2007	1681.0	326.0
Bittern	1272000	644.51	689.10	405.37	45	4.27	7	2.85	34.16	8.53	16057	0.04486	2143	1795.0	348.0
Dipper	1351500	685.16	732.26	430.70	45	4.40	7	2.92	35.18	8.76	17010	0.04222	2275	1906.0	369.0
Bobolink	1431000	725.16	775.48	456.04	45	4.53	7	3.02	36.25	9.07	18053	0.03988	2411	2019.0	392.0
Nuthatch	1510500	765.16	818.06	481.37	45	4.65	7	3.10	37.21	9.30	18869	0.03988	2543	2131.0	412.0
Lapwing	1590000	805.80	861.29	506.71	45	4.77	7	3.18	38.15	9.55	19867	0.03589	2677	2243.0	434.0
Chukar	1780000	901.93	975.48	567.00	84	3.70	19	2.22	40.69	11.10	24312	0.03212	3086	2510.0	576.0



ALUMINIUM CONDUCTORS –BARE (CANADIAN STANDARD SIZES)

Code word	Aluminium Area		Copper equivalent mm ²	Stranding, Number and diameter of wires (mm)		Dia. of conductor mm.	Rated ultimate strength Kg.	D-C resistance 20 °C	Weight Kg./Km
	AWG of circular Mills	mm ²		No.	Dia.			/Km.	
Rose	4	21.15	13.3	7	1.961	5.89	415	1.3510	57.7
Lily	3	26.67	16.77	7	2.202	6.60	515	1.0720	72.8
Iris	2	33.62	21.15	7	2.474	7.42	635	0.8500	91.8
Pansy	1	42.41	26.67	7	2.776	8.34	775	0.6740	115.8
Poppy	1/0	53.49	33.62	7	3.119	9.36	940	0.5340	146.1
Aster	2/0	67.43	42.41	7	3.503	10.55	1185	0.4240	184.2
Phlox	3/0	85.01	53.49	7	3.932	11.79	1435	0.3360	232.3
Oxlip	4/0	107.20	67.43	7	4.417	13.26	1810	0.2670	292.9
Daisy	266,800	135.20	85.01	7	4.958	14.88	2280	0.2110	369.2
Peony	300,000	152.00	95.60	19	3.193	15.98	2670	0.1890	417.4
Tulip	396,400	170.50	107.20	19	3.381	16.92	2995	0.1680	467.3
Canaa	397,500	201.40	126.70	19	3.673	18.36	3470	0.1420	553.0
Cosmos	477,000	241.70	152.00	19	4.023	20.12	4080	0.1190	663.5
Zinnia	500,000	253.30	159.40	19	4.120	20.60	4275	0.1130	695.6
Dahlia	556,500	282.00	177.40	19	4.346	21.75	4760	0.1020	774.2
Orchid	636,000	322.30	202.70	37	3.330	23.31	5665	0.0895	888.9
Violet	715,500	362.50	228.00	37	3.533	24.71	6375	0.0795	1000.0
Petunia	750,000	380.00	239.00	37	3.617	25.32	6545	0.0758	1048.0
Arbutus	795,000	402.80	253.40	37	3.724	26.04	6940	0.0715	1111.0
Anemone	874,500	443.10	278.70	37	3.904	27.33	7475	0.0652	1222.0
Magnolia	954,000	483.40	304.00	37	4.079	28.56	8155	0.0597	1333.0
Bluebell	1,033,500	523.70	329.40	37	4.244	29.75	8835	0.0551	1445.0
Marigold	1,113,000	564.00	354.70	61	3.432	30.87	9910	0.0513	1560.0
Hawthom	1,192,500	604.20	380.00	61	3.551	31.95	10615	0.0478	1670.0
Narcissus	1,272,000	644.50	405.40	61	3.668	33.02	11090	0.0449	1781.0
Columbine	1,351,500	684.80	430.70	61	3.780	34.01	11795	0.0423	1893.0
Carnation	1,431,000	725.10	456.00	61	3.891	35.03	12225	0.0399	2005.0
Gladiolus	1,510,500	765.40	481.40	61	3.998	36.00	12905	0.0378	2116.0
Coreopsis	1,590,000	805.70	506.70	61	4.100	36.91	13585	0.0359	2226.0

