

CONDUCTOR DATA SHEET

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

ASTM SIZES

Code Name	Area				Equivalent copper area		Stranding and wire diameter		Approx. overall diameter	Weight			Rated Strength	Maximum dc resistance at 20 °C
	Aluminium		Steel	Total			Aluminium	Steel		Aluminium	Steel	Total		
	AWG or MCM	mm ²	mm ²	mm ²	AWG or MCM	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω /km
TURKEY	6	13.30	2.22	15.52	8	8.39	6/1.68	1/1.68	5.04	36.5	17	54	5.28	2.1499
THRUSH	5	16.83	2.81	19.64	7	10.58	6/1.89	1/1.89	5.67	46.0	22	68	6.68	1.6987
SWAN	4	21.18	3.53	24.71	6	13.29	6/2.12	1/2.12	6.36	58.0	27	85	8.30	1.3501
SWANATE	4	21.12	5.35	26.47	6	13.29	7/1.96	1/2.61	6.53	58.0	42	100	10.68	1.3539
SWALLOW	3	26.69	4.45	31.14	5	16.77	6/2.38	1/2.38	7.14	73.0	35	108	10.21	1.0712
SPARROW	2	33.59	5.60	39.19	4	21.16	6/2.67	1/2.67	8.01	92.0	44	136	12.69	0.8512
SPARATE	2	33.54	8.55	42.09	4	21.16	7/2.47	1/3.30	8.24	92.0	67	159	16.14	0.8525
ROBIN	1	42.41	7.07	49.48	3	26.65	6/3.00	1/3.00	9.00	116.0	55	171	15.81	0.6742
RAVEN	1/0	53.52	8.92	62.44	2	33.61	6/3.37	1/3.37	10.11	147.0	69	216	19.35	0.5343
QUAIL	2/0	67.33	11.22	78.55	1	42.39	6/3.78	1/3.78	11.34	185.0	87	272	23.27	0.4247
PIGEON	3/0	85.12	14.19	99.31	1/0	53.48	6/4.25	1/4.25	12.75	234.0	110	344	29.42	0.3359
PENGUIN	4/0	107.20	17.87	125.10	2/0	67.42	6/4.77	1/4.77	14.31	294.0	139	433	36.54	0.2667
WAXWING	266.8	135.00	7.50	142.50	3/0	85.03	18/3.09	1/3.09	15.45	372.0	59	431	30.27	0.2118
OWL	266.8	135.40	17.62	153.00	3/0	85.03	6/5.36	7/1.79	16.09	371.0	138	512	42.95	0.2112
PARTRIDGE	266.8	134.90	21.99	156.90	3/0	85.03	26/2.57	7/2.00	16.28	373.0	172	545	50.23	0.2141
OSTRICH	300	152.20	24.71	176.90	189	95.48	26/2.73	7/2.12	17.28	422.0	193	615	56.55	0.1897
MERLIN	336.4	170.20	9.46	179.70	4/0	107.23	18/3.47	1/3.47	17.35	469.0	74	543	38.17	0.1688
LINNET	336.4	170.60	27.83	198.40	4/0	107.23	26/2.89	7/2.25	18.31	473.0	217	690	62.76	0.1693
ORIOLE	336.4	170.50	39.78	210.30	4/0	107.23	30/2.69	7/2.69	18.83	474.0	311	785	77.43	0.1698
CHICKADEE	397.7	200.90	11.16	212.10	250	126.45	18/3.77	1/3.77	18.85	555.0	87	642	43.37	0.1430
BRANT	397.5	201.60	26.13	227.70	250	126.45	24/3.27	7/2.18	19.62	558.0	204	762	64.72	0.1433
IBIS	397.5	201.30	32.73	234.00	250	126.45	26/3.14	7/2.44	19.88	558.0	256	814	72.05	0.1434
LARK	397.5	200.90	46.88	247.80	250	126.45	30/2.92	7/2.92	20.44	558.0	367	925	90.30	0.1441

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	Aluminium		Steel	Total			Aluminium	Steel		Aluminium	Steel	Total		
	AWG or MCM	mm ²	mm ²	mm ²	AWG or MCM	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω /km
PELICAN	477	242.30	13.46	255.80	300	152.26	18/4.14	1/4.14	20.70	668.0	105	773	52.30	0.1186
FLICKER	477	241.60	31.40	273.00	300	152.26	24/3.58	7/2.39	21.49	669.0	245	914	76.78	0.1195
HAWK	477	241.60	39.49	281.10	300	152.26	26/3.44	7/2.68	21.80	669.0	306	975	86.73	0.1195
HEN	477	241.30	56.30	297.60	300	152.26	30/3.20	7/3.20	22.40	670.0	440	1110	105.16	0.1200
OSPREY	556.5	282.50	15.69	298.20	350	172	18/4.47	1/4.47	22.35	779.0	122	901	60.52	0.1017
PARAKEET	556.5	282.30	36.60	318.90	350	172	24/3.87	7/2.58	23.22	783.0	286	1069	88.29	0.1023
DOVE	556.5	282.60	45.92	328.50	350	172	26/3.72	7/2.89	23.55	783.0	359	1142	101.10	0.1022
EAGLE	556.5	282.10	65.82	347.90	350	172	30/3.46	7/3.46	24.21	784.0	515	1298	122.90	0.1026
PEACOCK	605	306.10	39.78	345.90	381	187	24/4.03	7/2.69	24.20	849.0	311	1160	95.86	0.0943
SQUAB	605	305.80	49.81	355.60	381	187	26/3.87	7/3.01	24.51	848.0	389	1237	109.60	0.0944
WOODDUCK	605	307.10	71.65	378.80	381	187	30/3.61	7/3.61	25.25	853.0	560	1413	129.00	0.0943
TEAL	605	307.10	69.62	376.70	381	187	30/3.61	19/2.16	25.24	853.0	545	1398	136.10	0.0943
KINGBIRD	636	323.00	17.95	341.00	400	197	18/4.78	1/4.78	23.90	891.0	140	1031	69.72	0.0890
ROOK	636	323.10	41.88	365.00	400	197	24/4.14	7/2.76	24.84	896.0	327	1223	101.00	0.0894
GROSBEAK	636	321.80	52.49	374.30	400	197	26/3.97	7/3.09	25.15	892.0	410	1302	111.90	0.0897
SCOTER	636	322.60	75.26	397.90	400	197	30/3.70	7/3.70	25.90	897.0	588	1485	135.50	0.0897
EGRET	636	322.60	73.54	396.10	400	197	30/3.70	19/2.22	25.90	897.0	576	1473	140.60	0.0897
FLAMINGO	666.6	337.30	43.72	381.00	419	206	24/4.23	7/2.82	25.34	935.0	342	1277	105.50	0.0856
GANNET	666.6	338.30	54.90	393.20	419	201	26/4.07	7/3.16	25.76	938.0	429	1367	117.30	0.0854
CROW	715.5	361.60	46.88	408.50	450	221	54/2.92	7/2.92	26.28	1003.0	366	1369	115.20	0.0799
STILT	715.5	363.30	46.88	410.20	450	222	24/4.39	7/2.92	26.32	1007.0	366	1373	113.30	0.0795
STARLING	715.5	361.90	59.15	421.10	450	221	26/4.21	7/3.28	26.68	1004.0	462	1466	125.90	0.0798
REDWING	715.5	362.10	82.41	444.50	450	221	30/3.92	19/2.35	27.43	1006.0	645	1651	153.70	0.0800

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	Aluminium		Steel	Total			Aluminium	Steel		Aluminium	Steel	Total		
	AWG or MCM	mm ²	mm ²	mm ²	AWG or MCM	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω /km
TERN	795	403.80	27.83	431.60	500	246	45/3.38	7/2.25	27.03	1120.0	217	1337	97.47	0.0715
CONDOR	795	402.30	52.15	454.50	500	245	54/3.08	7/3.08	27.72	1116.0	407	1523	124.30	0.0718
CUCKOO	795	402.30	52.15	454.50	500	245	24/4.62	7/3.08	27.72	1116.0	407	1523	123.80	0.0718
DRAKE	795	402.60	65.44	468.00	500	246	26/4.44	7/3.45	28.11	1116.0	511	1627	139.70	0.0717
MALLARD	795	403.80	91.78	495.60	500	246	30/4.14	19/2.48	28.96	1122.0	718	1840	171.20	0.0717
CRANE	874.5	442.50	57.36	499.90	550	270	54/3.23	7/3.23	29.07	1221.0	448	1669	136.70	0.0649
RUDDY	900	455.50	31.67	487.20	566	278	45/3.59	7/2.40	28.74	1268.0	247	1510	109.40	0.0634
CANARY	900	456.30	59.15	515.50	566	278	54/3.28	7/3.28	29.52	1265.0	462	1727	141.00	0.0633
RAIL	954	483.80	33.54	517.30	600	295	45/3.70	7/2.47	29.61	1342.0	262	1604	116.10	0.0597
CARDINAL	954	484.50	62.81	547.30	600	296	54/3.38	7/3.38	30.42	1343.0	491	1834	149.70	0.0596
ORLAN	1033.5	523.90	36.31	560.20	650	320	45/3.85	7/2.57	30.81	1453.0	283	1736	123.30	0.0551
CURLEW	1033.5	525.50	68.10	593.60	650	321	54/3.52	7/3.52	31.68	1457.0	532	1989	162.40	0.0550
BLUEJAY	1113	565.50	38.90	604.40	700	345	45/4.00	7/2.66	31.98	1568.0	304	1872	132.70	0.0511
FINCH	1113	565.00	71.57	636.60	700	345	54/3.65	19/2.19	32.85	1574.0	560	2134	174.60	0.0514
BUNTING	1192.5	605.80	41.90	647.70	750	370	45/4.14	7/2.76	33.12	1680.0	327	2007	142.40	0.0477
GRACKLE	1192.5	602.80	76.90	679.70	750	368	54/3.77	19/2.27	33.97	1680.0	601	2281	184.20	0.0481
BITTERN	1272	644.40	44.70	689.10	800	393	45/4.27	7/2.85	34.17	1787.0	349	2136	151.40	0.0448
PHEASANT	1272	645.10	81.71	726.80	800	394	54/3.90	19/2.34	35.10	1797.0	640	2137	194.10	0.0450
DIPPER	1351.5	684.20	47.20	731.10	850	417	45/4.40	7/2.92	35.16	1897.0	366	2263	160.30	0.0422
MARTIN	1351.5	685.40	86.70	772.10	850	418	54/4.02	19/2.41	36.17	1910.0	678	2588	206.10	0.0423
BOBOLINK	1431	725.20	50.10	775.40	900	442	45/4.53	7/3.02	36.24	2011.0	392	2403	168.60	0.0398
PLOVER	1431	726.90	91.80	818.70	900	443	54/4.14	19/2.48	37.24	2025.0	719	2744	218.40	0.0399
NUTHATCH	1510.5	764.20	52.80	817.00	950	466	45/4.65	7/3.10	37.20	2119.0	413	2532	177.60	0.0378
PARROT	1510.5	766.10	97.00	863.10	950	467	54/4.25	19/2.55	38.25	2134.0	760	2894	230.50	0.0379

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	Aluminium		Steel	Total			Aluminium	Steel		Aluminium	Steel	Total		
	AWG or MCM	mm ²	mm ²	mm ²	AWG or MCM	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω /km
LAPWING	1590	804.10	55.60	859.80	1000	491	45/4.77	7/3.18	38.16	2230.0	424	2664	186.90	0.0359
FALCON	1590	806.20	102.40	908.70	1000	492	54/4.36	19/2.62	39.26	2246.0	802	3048	243.00	0.0360
CHUKER	1780	903.20	73.50	976.70	1119	551	84/3.70	19/2.22	40.70	2516.0	576	3092	227.80	0.0321
High Strength Strandings														
GROUSE	80	40.54	14.12	54.66	50	25	8/2.54	1/4.24	9.32	111.0	110	221	23.06	0.7089
PETREL	101.8	51.61	30.10	81.71	64	32	12/2.34	7/2.34	11.70	143.0	235	378	46.16	0.5595
MIORCA	110.8	56.11	32.73	88.84	70	34	12/2.44	7/2.44	12.20	155.0	256	411	50.19	0.5146
LEGHORN	134.6	68.20	39.78	108.00	85	42	12/2.69	7/2.69	13.46	189.0	311	500	60.67	0.4234
GUINEA	159	80.36	46.88	127.20	100	49	12/2.92	7/2.92	14.60	223.0	367	590	71.10	0.3593
DOTTEREL	176.9	89.41	52.15	141.60	111	55	12/3.08	7/3.08	15.40	248.0	408	656	76.68	0.3230
DORKING	190.8	96.51	56.30	152.80	120	59	12/3.20	7/3.20	16.00	267.0	440	707	82.77	0.2992
COCHIN	211.3	107.00	62.44	169.40	133	65	12/3.37	7/3.37	16.85	296.0	488	784	91.79	0.2698
BRAHMA	203.2	102.80	91.78	194.60	128	63	16/2.86	19/2.48	18.12	285.0	718	1003	126.52	0.2809

CONDUCTOR DATA SHEET

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

BRITISH SIZES

Code Name	Nominal aluminium area	Equivalent copper area	Stranding and wire diameter		Overall diameter	Total area			Weights			Calculated breaking load	Maximum dc resistance at 20 °C
			Aluminium	Steel		Aluminium	Steel	Total	Aluminium	Steel	Total		
	mm ²	mm ²	mm	mm		mm ²	mm ²	mm ²	kg/km	kg/km	kg/km		
MOLE	10	6.5	6/1.50	1/1.50	4.5	10.6	1.77	12.4	29	14	43	4.1	2.7060
SQUIRREL	20	12.9	6/2.11	1/2.11	6.33	20.98	3.49	24.5	58	27	85	7.9	1.3700
GOPHER	25	16.1	6/2.36	1/2.36	7.08	26.25	4.37	30.6	72	34	106	9.6	1.0930
WEASEL	30	19.4	6/2.59	1/2.59	7.77	31.61	5.27	36.9	87	41	128	11.4	0.9077
FOX	35	22.6	6/2.79	1/2.79	8.37	36.68	6.11	42.8	101	48	149	13.2	0.7822
FERRET	40	25.8	6/3.00	1/3.00	9	42.41	7.07	49.5	117	55	172	15.2	0.6766
RABBIT	50	32.3	6/3.35	1/3.35	10.05	52.88	8.81	61.7	145	69	214	18.4	0.5426
MINK	60	38.7	6/3.66	1/3.66	10.98	63.13	10.52	73.7	173	82	255	21.9	0.4545
SKUNK	60	38.7	12/2.59	7/2.59	12.95	63.22	36.88	100.1	175	290	465	52.9	0.4568
BEAVER	70	45.2	6/3.99	1/3.99	11.97	75.02	12.50	87.5	205	97	302	25.8	0.3825
HORSE	70	45.2	12/2.79	7/2.79	13.95	73.36	42.80	116.2	203	335	538	61.2	0.3936
RACCOON	75	48.4	6/4.10	1/4.10	12.3	79.21	13.20	92.4	217	103	320	27.2	0.3623
OTTER	80	51.6	6/4.22	1/4.22	12.66	83.92	13.99	97.9	230	109	339	28.8	0.3419
CAT	90	58.1	6/4.50	1/4.50	13.5	95.43	15.90	111.3	262	124	386	32.7	0.3006
HARE	100	64.5	6/4.72	1/4.72	14.16	105	17.50	122.5	288	137	425	35.9	0.2733
DOG	100	64.5	6/4.72	7/1.57	14.15	105	13.55	118.6	288	106	394	32.7	0.2733
HYENA	100	64.5	7/4.39	7/1.93	14.57	106	20.48	126.5	290	160	450	41.0	0.2702
LEOPARD	125	80.7	6/5.28	7/1.75	15.81	131.4	16.84	148.5	360	132	492	40.8	0.2185
COYOTE	125	80.7	26/2.54	7/1.91	15.89	131.7	20.06	151.8	365	157	522	46.3	0.2191
COUGAR	125	80.7	18/3.05	1/3.05	15.25	131.5	7.31	138.8	362	57	419	30.1	0.2190

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			Aluminium	Steel		Aluminium	Steel	Total	Aluminium	Steel	Total		
	mm ²	mm ²	mm	mm	mm	mm ²	mm ²	mm ²	kg/km	kg/km	kg/km	kN	Ω /km
TIGER	125	80.7	30/2.36	7/2.36	16.52	131.2	30.62	161.8	362	240	602	58.0	0.2202
WOLF	150	96.8	30/2.59	7/2.59	18.13	158.1	36.88	194.9	437	289	726	69.2	0.1828
DINGO	150	97.9	18/3.35	1/3.35	16.75	158.7	8.81	167.5	437	69	506	35.7	0.1815
LYNX	175	113	30/2.79	7/2.79	19.53	183.4	42.79	226.2	507	335	842	79.8	0.1576
CARACAL	175	113.7	18/3.61	1/3.61	18.05	184.2	10.24	194.5	507	81	587	41.1	0.1563
PANTHER	200	129	30/3.00	7/3.00	21	212.1	49.48	261.6	586	388	974	92.3	0.1363
LION	225	145	30/3.18	7/3.18	22.26	238.3	55.60	293.9	659	436	1095	100.5	0.1212
BEAR	250	161	30/3.35	7/3.35	23.45	264.4	61.70	326.1	730	483	1213	111.2	0.1093
GOAT	300	194	30/3.71	7/3.71	25.97	324.3	75.67	400.0	896	593	1489	135.8	0.0891
SHEEP	350	226	30/3.99	7/3.99	27.93	375.1	87.53	462.6	1034	684	1718	156.3	0.0770
ANTELOPE	350	226	54/2.97	7/2.97	26.73	374.1	48.49	422.6	1032	379	1411	118.5	0.0773
BISON	350	226	54/3.00	7/3.00	27	381.7	49.48	431.2	1056	388	1444	120.9	0.0757
JAGUAR	200	130	18/3.86	1/3.86	19.3	210.6	11.70	222.3	580	91	671	46.6	0.1367
DEER	400	258	30/4.27	7/4.27	29.89	429.6	100.20	529.8	1186	785	1971	178.5	0.0673
ZEBRA	400	258	54/3.18	7/3.18	28.62	428.9	55.60	484.5	1186	435	1621	131.9	0.0674
ELK	450	290	30/4.50	7/4.50	31.5	477.1	111.30	588.4	1318	872	2190	198.3	0.0606
CAMEL	450	290	54/3.35	7/3.35	30.15	475.9	61.70	537.6	1314	483	1797	145.9	0.0607
MOOSE	500	323	54/3.53	7/3.53	31.77	528.5	68.51	597.0	1462	537	1999	161.0	0.0547

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CSA-CAN Sizes

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	Aluminium		Steel	Total	AWG or MCM	mm ²	Aluminium	Steel		Aluminium	Steel	Total		
	AWG or MCM	mm ²	mm ²	mm ²			mm	mm		kg/km	kg/km	kg/km		
									mm				kN	Ω / km
Wren	8	8.34	1.39	9.7	10	5.1	6/1.33	1/1.33	3.99	23	11	34	3.29	3.4416
Warbler	7	10.6	1.77	12.4	9	6.5	6/1.50	1/1.50	4.50	29	14	43	4.19	2.7057
Turkey	6	13.3	2.22	15.5	8	8.1	6/1.68	1/1.68	5.04	37	17	54	5.19	2.1569
Thrush	5	16.83	2.81	19.6	7	10.3	6/1.89	1/1.89	5.67	46	22	68	6.56	1.7043
Swan	4	21.18	3.53	24.7	6	12.9	6/2.12	1/2.12	6.36	58	27	85	8.15	1.3545
Swallow	3	26.69	4.45	31.1	5	16.3	6/2.38	1/2.38	7.14	73	35	108	10	1.0747
Sparrow	2	33.59	5.6	39.2	4	20.5	6/2.67	1/2.67	8.01	92	44	136	12.4	0.854
Robin	1	42.41	7.07	49.5	3	25.9	6/3.00	1/3.00	9.00	116	55	171	15.5	0.6764
Raven	1/0	53.52	8.92	62.4	2	32.6	6/3.37	1/3.37	10.11	146	69	215	18.9	0.536
Quail	2/0	67.33	11.22	78.6	1	41.1	6/3.78	1/3.78	11.34	185	88	273	23.5	0.4261
Pigeon	3/0	85.11	14.18	99.3	1/0	51.9	6/4.25	1/4.25	12.75	233	110	343	29.6	0.337
Penguin	4/0	107.2	17.87	125.1	2/0	65.4	6/4.77	1/4.77	14.31	294	139	433	37.3	0.2676
Owl	266.8	135.4	17.6	153.0	3/0	82.6	6/5.36	7/1.79	16.09	371	137	508	41	0.2119
Waxwing	266.8	135	7.5	142.5	3/0	82.3	18/3.09	1/3.09	15.45	372	58	430	31.2	0.2134
Partridge	266.8	134.9	22	156.9	3/0	82.3	26/2.57	7/2.00	16.28	374	171	545	49.3	0.2141
Phoebe	300	152.1	8.46	160.6	189	92.8	18/3.28	1/3.28	16.40	418	65	483	35.2	0.1894
Ostrich	300	152.2	24.1	176.9	189	92.8	26/2.73	7/2.12	17.28	420	193	613	55.6	0.1897
Piper	300	152	35.5	187.5	189	92.7	30/2.54	7/2.54	17.78	420	277	697	66.3	0.1899
Merlin	336.4	170.2	9.45	179.7	4/0	103.8	18/3.47	1/3.47	17.35	469	74	543	39.3	0.1692
Linnet	336.4	170.6	27.83	198.4	4/0	104	26/2.89	7/2.25	18.31	470	217	687	61.6	0.1693
Oriole	336.4	170.5	39.78	210.3	4/0	104	30/2.69	7/2.69	18.83	472	311	783	76	0.1694
Chickadee	397.5	200.9	11.16	212.1	250	122.6	18/3.77	1/3.77	18.85	555	86	641	45.4	0.1433

CONDUCTOR DATA SHEET

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

CSA-CAN Sizes

Code Name	Area				Equivalent copper area		Stranding and wire diameter		Approx. overall diameter	Weight			Rated Strength	Maximum DC resistance at 20 °C
	Aluminium		Steel	Total	AWG or MCM	mm ²	Aluminium	Steel		Aluminium	Steel	Total		
	AWG or MCM	mm ²	mm ²	mm ²			mm	mm		kg/km	kg/km	kg/km		
									mm				kN	Ω / km
Ibis	397.5	201.3	32.73	234.0	250	122.8	26/3.14	7/2.44	19.88	557	256	813	70.2	0.1434
Lark	397.5	200.9	46.87	247.8	250	122.5	30/2.92	7/2.92	20.44	557	366	923	88.6	0.1437
Pelican	477	242.3	13.46	255.8	300	147.8	18/4.14	1/4.14	20.70	665	104	769	54.8	0.1189
-	477	241.8	23.78	265.6	300	147.4	22/3.74	7/2.08	21.20	667	186	853	67.3	0.1193
Hawk	477	241.6	39.19	280.8	300	147.4	26/3.44	7/2.67	21.77	667	308	975	84.2	0.1195
Hen	477	241.3	56.29	297.6	300	142.2	30/3.20	7/3.20	22.40	668	440	1108	102.9	0.1197
Heron	500	253.5	59.1	312.6	315	155	30/3.28	7/3.28	22.96	700	464	1164	108.16	0.11391
Sapsucker	556.5	282	27.6	309.6	350	172	22/4.04	7/2.24	22.88	778	216	994	78.81	0.1027
Dove	556.5	282.6	45.9	328.5	350	172	26/3.72	7/2.89	23.55	781	360	1141	100.39	0.10218
Eagle	556.5	282.1	65.8	347.9	350	172	30/3.46	7/3.46	24.22	779	516	1295	120.35	0.10236
Teal	605	306.3	30.1	336.4	381	187	22/4.21	7/2.34	23.86	845	236	1081	84.35	0.09417
Duck	605	306.9	39.8	346.7	381	187	54/2.69	7/2.69	24.21	849	312	1161	100.54	0.09424
----	636	322.5	31.7	354.2	400	197	22/4.32	7/2.40	24.48	890	248	1138	89.31	0.08944
Grosbeak	636	321.8	52.5	374.3	400	196	26/3.97	7/3.09	25.15	889	411	1300	110.85	0.08972
Egert	636	322.6	73.5	396.1	400	197	30/3.70	19/2.22	25.90	891	579	1470	140.88	0.08952
Goose	636	323.1	41.9	365.0	400	197	54/2.76	7/2.76	24.84	894	328	1222	104.28	0.08952
----	666.6	337.8	17.4	355.2	419	206	42/3.20	7/1.78	24.54	934	137	1071	77.8	0.08554
Gull	666.6	337.3	43.7	381.0	419	206	54/2.82	7/2.82	25.38	934	342	1276	108.86	0.08575
Starling	715.5	361.9	59.2	421.1	450	221	26/4.21	7/3.28	26.68	1000	464	1464	124.78	0.07978
Redwing	715.5	362.1	82.4	444.5	450	221	30/3.92	19/2.35	27.43	1001	648	1649	153.69	0.07975
----	715.5	361.4	18.6	380.0	450	220	42/3.31	7/1.84	25.38	999	146	1145	83.22	0.07995

CONDUCTOR DATA SHEET

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

CSA-CAN Sizes

Code Name	Area				Equivalent copper area		Stranding and wire diameter		Approx. overall diameter	Weight			Rated Strength	Maximum DC resistance at 20 °C
	Aluminium		Steel	Total	AWG or MCM	mm ²	Aluminium	Steel		Aluminium	Steel	Total		
	AWG or MCM	mm ²	mm ²	mm ²			mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω / km
Crow	715.5	361.6	46.9	408.5	450	221	54/2.92	7/2.92	26.28	1001	367	1368	116.72	0.07998
Drake	795	402.6	65.4	468.0	500	246	26/4.44	7/3.45	28.11	1112	513	1625	138.4	0.07173
Mallard	795	403.8	91.8	495.6	500	246	30/4.14	19/2.48	28.96	1116	722	1838	171.46	0.0715
----	795	404.1	20.7	424.8	500	247	42/3.50	7/1.94	26.82	1117	163	1280	92.9	0.0715
Condor	795	402.3	52.2	454.5	500	245	54/3.08	7/3.08	27.72	1114	409	1523	125.77	0.07189
----	874.5	444.3	22.9	467.2	550	271	42/3.67	7/2.04	28.14	1229	179	1408	102.3	0.06503
Crane	874.5	442.5	57.4	499.9	550	270	54/3.23	7/3.23	29.07	1229	499	1674	138.36	0.06537
----	900	456.5	23.6	480.1	566	279	42/3.72	7/2.07	28.53	1262	185	1447	105.16	0.0633
Canary	900	456.3	59.1	515.4	566	278	54/3.28	7/3.28	29.52	1263	464	1727	142.63	0.06339
----	954	483.9	24.9	508.8	600	295	42/3.83	7/2.13	29.37	1338	195	1533	109.02	0.05977
Cardinal	954	484.5	62.8	547.3	600	296	54/3.38	7/3.38	30.42	1341	492	1833	151.46	0.05969
----	1033.5	525.1	26.9	552.0	650	320	42/3.99	7/2.21	30.57	1452	210	1662	118.07	0.05502
Curlew	1033.5	522.5	67.7	590.2	650	319	54/3.51	7/3.51	31.59	1446	531	1977	163.33	0.05535
----	1113	565.4	29.1	594.5	700	345	42/4.14	7/2.30	31.74	1563	228	1791	126.44	0.05114
Finch	1113	565	71.6	636.6	700	345	54/3.65	19/2.19	32.85	1564	563	2127	179.79	0.05119
---	1192.5	604.4	31.3	635.7	750	369	42/4.28	7/2.38	32.82	1670	243	1913	135.2	0.04778
Grackle	1192.5	602.8	76.89	679.7	750	368	54/3.77	19/2.27	33.97	1667	602	2269	189.4	0.04798
Scissomil	1272	644.3	33.3	677.6	800	393	42/4.42	7/2.46	33.90	1780	260	2040	144.3	0.04484
Pheasant	1272	645.3	81.7	727.0	800	394	54/3.90	19/2.34	35.10	1784	640	2424	199.6	0.04484
---	1351.5	685.9	35.2	721.1	850	418	42/4.56	7/2.53	34.95	1895	275	2170	153.3	0.04213
Martin	1351.5	685.3	86.7	772.0	850	418	54/4.02	19/2.41	36.17	1895	679	2574	211.9	0.0422
---	1431	725.8	37.5	763.3	900	443	42/4.69	7/2.61	35.97	2005	292	2297	162.4	0.03982

CONDUCTOR DATA SHEET

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

CSA-CAN Sizes

Code Name	Area				Equivalent copper area		Stranding and wire diameter		Approx. overall diameter	Weight			Rated Strength	Maximum DC resistance at 20 °C
	Aluminium		Steel	Total	AWG or MCM	mm ²	Aluminium	Steel		Aluminium	Steel	Total		
	AWG or MCM	mm ²	mm ²	mm ²			mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω / km
Plover	1431	726.8	91.2	818.0	900	443	54/4.14	19/2.48	37.24	2010	719	2729	224.6	0.03979
---	1510.5	766.5	39.2	805.7	950	468	42/4.82	7/2.67	36.93	2117	306	2423	171.1	0.0377
Parrot	1510.5	766.3	97	863.3	950	467	54/4.25	19/2.55	38.25	2119	760	2879	237	0.03775
---	1590	804.5	71.3	875.8	1000	491	48/4.62	7/3.60	38.52	2222	556	2778	211.1	0.036
Falcon	1590	806.2	102.4	908.6	1000	492	54/4.36	19/2.62	39.26	2230	802	3032	249.8	0.03587
---	1590	803.5	34.9	838.4	1000	490	72/3.77	7/2.52	37.72	2222	273	2495	172.4	0.03598
Extra High Strength Strandings														
Bantam	13.1	6.65	8.86	15.5	8.26	4.1	3/1.68	4/1.68	5.04	18.2	69.6	87.8	12.3	4.3139
Magpie	20.87	10.59	14.12	24.7	13.13	6.5	3/2.12	4/2.12	6.36	29	110.7	139.7	18.5	2.709
Shrike	33.2	16.8	22.39	39.2	20.87	10.2	3/2.67	4/2.67	8.01	46.1	176.5	222.6	28.6	1.7079
Snipe	52.825	26.76	35.68	62.4	33.18	16.3	3/3.37	4/3.37	10.11	73.4	280.7	354.1	43.8	1.0721
Loon	66.5	33.66	44.89	78.6	41.84	20.6	3/3.78	4/3.78	11.34	92.4	353.4	445.8	56.1	0.8521
Grouse	80	40.54	14.12	54.7	50.31	24.7	8/2.54	1/4.24	9.32	111.2	110	221.2	22.8	0.7078
Petrel	101.8	51.61	30.1	81.7	64.16	31.5	12/2.34	7/2.34	11.70	142.1	234.8	376.9	43.9	0.5614
Minorca	110.8	56.11	32.73	88.8	69.7	34.2	12/2.44	7/2.44	12.20	155.6	255.7	411.3	47.7	0.5163
Leghorn	134.6	68.19	39.78	108.0	84.6	41.6	12/2.69	7/2.69	13.45	187.5	311	498.5	57.6	0.4248
Guinea	159	80.36	46.88	127.2	100	49	12/2.92	7/2.92	14.60	221.7	366.1	587.8	67.5	0.3605
Dotterel	176.6	89.41	52.15	141.6	111.2	54.5	12/3.08	7/3.08	15.40	247	407.8	654.8	72.6	0.324
Dorking	190.8	96.51	56.3	152.8	120	58.9	12/3.20	7/3.20	16.00	266.4	439.5	705.9	78.3	0.3002
Brahma	203.2	102.8	91.78	194.6	127.8	62.7	16/2.86	19/2.48	18.12	285.7	718.8	1004.5	122.6	0.2818
Auk	203	103.1	27.83	130.9	127.7	62.9	8/4.05	7/2.25	14.85	282.7	217.3	500	49.6	0.2784
Cochin	211.3	107	62.44	169.4	132.9	65.3	12/3.37	7/3.37	16.85	294.7	488.1	782.8	86.9	0.2704

CONDUCTOR DATA SHEET

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

DIN Sizes

Nominal		Area			Equivalent copper area	Stranding and wire diameter		Overall Diameter	Weight			Calculated breaking load	Maximum DC resistance at 20 °C
		Aluminium	Steel	Total		Aluminium	Steel		Aluminium	Steel	Total		
mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω / km
16	2.5	15.3	2.6	17.9	9.3	6/1.80	1/1.80	5.4	41.8	19.9	61.7	5.81	1.8793
25	4.0	23.8	4.0	27.8	14.5	6/2.25	1/2.25	6.8	65.4	31.0	96.4	9.02	1.2028
35	6.0	34.3	5.7	40.0	20.9	6/2.70	1/2.70	8.1	94.2	44.7	138.9	12.70	0.8353
44	32.0	44.0	31.7	75.7	26.8	14/2.00	7/2.40	11.2	121.4	248.2	369.6	45.46	0.6573
50	8.0	48.3	8.0	56.3	29.5	6/3.20	1/3.20	9.6	132.2	62.7	194.9	17.18	0.5946
50	30	51.2	29.8	81.0	31.2	12/2.33	7/2.33	11.7	141.1	233.9	375.0	44.28	0.5644
70	12	69.9	11.4	81.3	42.6	26/1.85	7/1.44	11.7	192.8	89.4	282.2	26.31	0.4130
95	15	94.4	15.3	109.7	57.6	26/2.15	7/1.67	13.6	260.3	120.1	380.4	35.17	0.3058
95	55	96.5	56.3	152.8	58.9	12/3.20	7/3.20	16.0	266.2	441.1	707.3	80.20	0.2992
105	75	105.7	75.5	181.5	64.5	14/3.10	19/2.25	17.5	291.8	594.0	885.8	106.69	0.2376
120	20	121.6	19.8	141.4	74.2	26/2.44	7/1.90	15.5	335.5	155.5	491.0	44.94	0.2374
120	70	122.0	71.3	193.3	74.4	12/3.60	7/3.60	18.0	337.0	558.0	895.0	98.16	0.2364
125	30	127.9	29.8	157.7	78.0	30/2.33	7/2.33	16.1	353.0	233.9	586.9	57.86	0.2259
150	25	148.9	24.2	173.1	90.8	26/2.70	7/2.10	17.1	410.6	190.0	600.6	54.37	0.1939
170	40	171.8	40.1	211.9	104.8	30/2.70	7/2.7	18.9	474.2	314.0	788.2	77.01	0.1682
185	30	183.8	29.8	213.6	112.1	26/3.00	7/2.33	19	507.0	233.9	740.9	66.28	0.1571

CONDUCTOR DATA SHEET

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

DIN Sizes

Nominal		Area			Equivalent copper area	Stranding and wire diameter		Overall Diameter	Weight			Calculated breaking load	Maximum DC resistance at 20 °C
		Aluminium	Steel	Total		Aluminium	Steel		Aluminium	Steel	Total		
mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω / km
210	35	209.1	34.1	243.2	128	26/3.20	7/2.49	20.3	576.6	267.1	843.7	74.94	0.1380
210	50	212.1	49.5	261.6	129	30/3.00	7/3.00	21.0	585.5	387.7	973.2	92.23	0.1363
230	30	230.9	29.8	260.7	141	24/3.50	7/2.33	21.0	636.5	233.9	870.4	73.09	0.1249
240	40	243.0	39.5	282.5	148	26/3.45	7/2.68	21.8	670.4	309.4	979.8	86.46	0.1188
265	35	263.7	34.1	297.8	161	24/3.74	7/2.49	22.4	726.9	267.1	994.0	82.94	0.1094
300	50	304.3	49.5	353.7	186	26/3.86	7/3.00	24.5	839.0	387.7	1226.7	105.09	0.0949
305	40	304.6	39.5	344.1	186	54/2.68	7/2.68	24.1	841.2	309.4	1150.6	99.30	0.0949
340	30	339.3	29.8	369.1	207	48/3.00	7/2.33	25.0	936.8	233.9	1170.7	92.56	0.0851
380	50	382.0	49.5	431.5	233	54/3.00	7/3.00	27.0	1054.3	387.7	1442.0	120.91	0.0757
385	35	386.0	34.1	420.1	235	48/3.20	7/2.49	26.7	1065.4	267.1	1332.5	194.31	0.0748
435	55	434.3	56.3	490.6	265	54/3.20	7/3.20	28.8	1199.0	441.1	1631.1	136.27	0.0666
450	40	448.7	39.5	488.2	274	48/3.45	7/2.68	28.7	1238.6	309.4	1548.0	120.19	0.0644
490	65	490.3	63.6	553.9	299	54/3.40	7/3.40	30.6	1353.7	498.0	1851.7	152.85	0.0590
550	70	550.0	71.3	621.3	336	54/3.60	7/3.60	32.4	1518.3	558.3	2076.6	167.42	0.0526
560	50	561.7	49.5	611.2	343	48/3.86	7/3.00	32.2	1550.2	387.7	1937.9	146.28	0.0514
680	85	678.6	86.0	764.6	414	54/4.00	19/2.40	36.0	1874.5	675.8	2550.3	209.99	0.0426

CONDUCTOR DATA SHEET

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

French Sizes

Code Name	Total area			Equivalent copper area	Stranding and wire diameter		overall diameter	Weight			Rated Strength	Maximum dc resistance at 20 °C
	Aluminium	Steel	Total		Aluminium	Steel		Aluminium	Steel	Total	kN	Ω / km
	mm ²	mm ²	mm ²		mm	mm		kg/km	kg/km	kg/km		
Canna 37.7	28.27	9.42	37.69	17.2	9/2.0	3/2.0	8.3	78	77	155	1625	1.020
Canna 59.7	37.30	21.99	59.29	22.8	12/2.0	7/2.0	10.0	104	172	276	3270	0.766
Canna 75.5	47.71	27.83	75.54	29.1	12/2.25	7/2.25	11.25	131	218	349	4115	0.605
Canna 93.3	58.9	34.34	93.3	36.0	12/2.5	7/2.5	12.50	162	269	431	4950	0.490
Canna 116.2	94.25	21.99	116.24	57.5	30/2.0	7/2.0	14.0	260	172	432	4315	0.306
Canna 147.1	119.28	27.83	147.11	72.8	30/2.25	7/2.25	15.75	329	218	547	5400	0.2430
Crocus 147.1	119.28	27.83	147.11	72.8	30/2.25	7/2.25	15.75	329	218	547	6180	0.2430
Canna 181.6	147.26	34.26	181.62	89.8	30/2.5	7/2.5	17.5	406	269	675	6490	0.1970
Canna 228	184.72	43.10	227.82	112.7	30/2.8	7/2.8	19.6	512	338	847	8050	0.1570
Crocus 228	184.72	43.10	227.82	112.7	30/2.8	7/2.8	19.6	510	338	847	9210	0.1570
Canna 288	233.8	54.55	288.35	142.6	30/3.15	7/3.15	22.05	645	426	1071	9850	0.1240
Crocus 288	233.8	54.55	288.35	142.6	30/3.15	7/3.15	22.05	645	426	1071	11380	0.1240
Crocus 297	221.67	75.54	297.21	135.2	36/2.8	19/2.25	22.45	618	592	1210	14720	0.1310
Crocus 412	325.72	85.95	411.67	198.7	32/3.6	19/2.4	26.4	906	674	1580	17330	0.0890
Crocus 612	507.83	104.79	611.8	309.8	66/4.24	19/2.65	32.03	1408	822	2230	23150	0.0571
Crocus 865	717.33	148.06	865.4	437.9	66/3.72	19/3.15	38.01	1990	1161	3151	31900	0.0404
Crocus 1185	956.66	227.82	1185	583.6	54/2.80 +	37/2.8	44.7	2668	1792	4460	48050	0.0304