



CONDUCTOR DATA SHEET

ALUMINUM CONDUCTORS 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	Total						
	AWG or MCM	mm ²			mm	mm ²								
										mm	mm			
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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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	mm ²	mm ²	mm	mm		Aluminium	Steel	Total				
	AWG or MCM	mm ²													mm	mm
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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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	mm ²	AWG or MCM	mm	mm	mm	kg/km	kg/km	kg/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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Code Name	Area				Equivalent copper area		Stranding and wire diameter		Approx. overall diameter	Weight			Rated Strength kN	Maximum dc resistance at 20 °C
	Aluminium		Steel	Total	mm ²	mm	mm	Aluminium		Steel	Total			
	AWG or MCM	mm ²										mm ²		
	mm ²	mm ²	mm ²	mm ²	mm ²	mm	mm	kg/km	kg/km	kg/km	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
MORCA	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

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ALUMINUM CONDUCTORS 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	mm ²	mm ²	mm ²	kg/km	kg/km	kg/km	kN	Ω /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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	mm ²	mm ²	diameter			Aluminium mm ²	Steel mm ²	Total mm ²	Aluminium kg/km	Steel kg/km	Total kg/km		
			Aluminium mm	Steel mm									
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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