

Aluminum Conductors Steel Reinforced (ACSR)

سیم های آلومینیومی با مغزی فولادی



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			kN	Ω / Km	
1	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
2	THRUSH	5	16.38	2.81	19.64	7	10.58	6/1.68	1/1.89	5.67	46.0	22	68	6.68	1.6987
3	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
4	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
5	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
6	SPARROW	2	33.59	5.60	39.19	4	21.16	7/2.47	1/2.67	8.01	92.0	44	136	12.69	0.8512
7	SPARATE	2	33.54	8.55	42.09	4	21.16	6/3.00	1/3.30	8.24	92.0	67	159	16.14	0.8525
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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
19	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	0.1693
20	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
21	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
22	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
23	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			kN	Ω / Km
1	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
2	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
3	HAWK	477	241.60	39.49	281.10	300	152.26	26/3.44	7/2.68	21.80	669.0	306	985	86.73	0.1195
4	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
5	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
6	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
7	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
8	EAGLE	556.5	282.10	65.82	347.9	350	172	30/3.46	7/3.46	24.21	784.0	515	1298	122.90	0.1026
9	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
10	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
11	WOODDUCK	605	307.10	71.65	378.80	381	187	30/3.61	7/3.61	25.25	853.0	5620	1413	129.00	0.0943
12	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
13	KINGBIRF	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
14	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
15	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
16	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
17	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
18	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
19	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
20	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
21	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
22	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
23	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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		AWG or MCM	mm ²	mm ²	mm ²	AWG or MCM	mm ²	mm	mm	mm	Kg / Km			kN	Ω / Km
1	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
2	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
3	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
4	DRAKE	795	402.60	65.44	468.00	500	246	26/4.44	7/3.45	28.11	1116.0	500	1627	139.70	0.0717
5	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
6	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
7	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
8	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
9	RAIL	954	483.80	33.57	517.30	600	295	45/3.70	7/2.47	29.61	1342.0	262	1604	116.10	0.0597
10	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
11	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
12	CURLEW	1033.5	525.5	68.10	593.60	650	321	54/3.52	7/3.52	31.68	1457.0	532	1989	162.40	0.0550
13	BLUEJEY	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
14	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
15	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
16	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
17	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
18	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
19	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
20	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
21	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
22	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
23	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
24	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			kN	Ω / Km	
1	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
2	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
3	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
4	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
5	PETREL	101.8	51.61	30.10	81.71	64	32	12/2.34	7/2.34	11.70	143.0	235	378	16.16	0.5595
6	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
7	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
8	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
9	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
10	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
11	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
12	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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	Code Name	Nominal Aluminum Area	Equivalent copper Area	Stranding and wire Diameter		Overall Diameter	Total Area			Weights			Calculated Breaking Load	Maximum DC Resistance at 20 °C		
		mm ²	mm ²	Aluminum	Steel		mm	mm	Aluminum	Steel	Total	Aluminum			Steel	Total
				mm					mm ²			Kg / Km			kN	Ω / Km
1	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		
2	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		
3	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		
4	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		
5	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		
6	FERRET	40	25.8	6/3.00	1/3.00	9	42.41	7.07	49.5	117	55	172	15.2	0.6766		
7	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		
8	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		
9	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		
10	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		
11	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		
12	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		
13	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		
14	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		
15	HARE	100	64.5	6/4.72	1/4.72	14.16	105	17.50	122.5	288	137	425	35.9	0.2733		
16	DOG	100	64.5	6/4.72	7/1.57	14.15	105	13.55	118.6	288	106	394	32.7	0.2733		
17	HYENA	100	64.5	7/4.39	7/1.93	14.57	106	20.48	126.5	290	160	450	41.0	0.2702		
18	LEOPARD	125	80.7	6/5.28	7/1.75	15.81	131.4	16.84	148.5	360	132	492	10.8	0.2185		
19	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		
20	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		Aluminum	Steel		mm	mm	Aluminum	Steel	Total	Aluminum		
			mm ²	mm		mm			mm ²			Kg / Km		
1	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
2	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
3	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
4	LYNX	175	113	30/2.79	7/2.79	19.53	183.4	42.79	226.2	507	335	842	79.8	0.1576
5	CARACAL	175	11.7	18/3.61	1/3.61	18.05	184.2	10.24	194.5	507	81	587	41.1	0.1563
6	PANTHER	200	129	30/3.00	7/3.00	21	212.1	49.48	261.6	586	388	974	92.3	0.1363
7	LION	225	145	30/3.18	7/3.18	22.26	237.3	55.60	293.9	659	436	1095	100.5	0.1212
8	BEAR	250	161	30/3.35	7/3.35	23.45	264.4	61.70	326.1	730	483	1213	111.2	0.1093
9	GOAT	300	194	30/3.71	7/3.71	25.97	324.3	75.67	400.0	896	493	1489	135.8	0.0891
10	SHEEP	350	226	30/3.99	7/3.99	27.93	375.1	87.53	462.6	1034	684	1718	156.3	0.0770
11	ANTELOPE	350	226	54/2.97	7/2.97	26.73	374.1	48.49	422.6	1032	379	1411	118.5	0.0773
12	BISON	350	226	54/3.00	7/3.00	27	381.7	49.48	431.2	1056	388	1444	120.9	0.0757
13	JAGUAR	200	130	18/3.86	1/3.86	19.3	210.6	11.70	222.3	580	91	671	46.6	0.1367
14	DEER	400	258	30/4.27	7/4.27	29.89	429.6	100.20	529.8	1156	785	1971	178.5	0.0673
15	ZEBRA	400	258	54/3.18	7/3.18	28.62	428.9	55.60	484.5	1156	435	1621	131.9	0.0674
16	ELK	450	290	30/4.50	7/4.50	31.5	477.1	111.30	588.4	1318	872	2190	198.3	0.0606
17	CAMEL	450	290	54/3.35	7/3.35	30.15	475.9	61.70	537.6	1314	483	1797	145.9	0.0607
18	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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		Aluminium		Steel	Total	AWG or MCM	mm ²	Aluminium	Steel		Aluminium	Steel	Total		
		AWG or MCM	mm ²	mm ²	mm ²			mm	mm						
1	Wern	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	OWI	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
14	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
15	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
16	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
17	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
18	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
19	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
20	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
21	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
22	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

Aluminum Conductors Steel Reinforced (ACSR)



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
															kN
1	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
2	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
3	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
4	-	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
5	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
6	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
7	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
8	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
9	Dove	556.25	282.6	45.9	328.5	350	172	26/3.72	7/2.89	23.55	781	360	1141	100.39	0.10218
10	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
11	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
12	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
13	-	636	322.5	31.7	354.2	400	197	22/4.32	7/2.40	24.48	890	248	1138	89.31	0.08944
14	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
15	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
16	Goose	636	323.1	41.9	365.0	400	197	54/2.76	7/2.76	24.84	894	320	1222	104.28	0.08952
17	-	66636	337.8	17.4	355.2	419	206	42/3.20	7/1.78	24.51	934	137	1071	77.8	0.08554
18	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
19	Starling	715.5	361.9	59.2	421.1	450	221	26/4.21	7/3.28	26.68	1000	464	1464	124.78	0.7978
20	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
21	-	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

Aluminum Conductors Steel Reinforced (ACSR)



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
															kN
1	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
2	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
3	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
4	-	795	404.1	20.7	424.8	500	247	42/3.50	7/1.94	26.82	1117	163	1280	92.9	0.0715
5	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
6	-	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
7	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
8	-	900	456.5	23.6	480.1	566	279	42/3.72	7/2.07	28.53	1262	185	1447	105.16	0.0633
9	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
10	-	954	483.9	24.9	508.8	600	295	42/3.83	7/2.13	29.37	1338	195	1533	109.02	0.05977
11	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
12	-	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
13	Curlew	1033.5	522.5	67.7	590.2	650	319	54/3.51	7/3.51	31.59	14466	531	1977	163.33	0.05535
14	-	1113	565.4	29.1	594.5	700	345	42/4.14	7/2.30	31.74	1563	228	1791	126.44	0.05114
15	Finch	1113	565	71.6	636.6	700	345	54/3.65	19/2.19	32.85	1564	563	2127	179.79	0.05119
16	-	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
17	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
18	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
19	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
20	-	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
21	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
22	-	1431	725.8	37.5	763.3	900	443	42/4.69	7/2.61	35.97	2005	292	2297	162.4	0.03982

Aluminum Conductors Steel Reinforced (ACSR)



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
															kN
1	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
2	-	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
3	Parrot	1510.5	766.3	97	863.3	950	467	54/4.25	19/2.55	38.25	2119	760	2879	237	0.03775
4	-	1590	804.5	71.3	875.8	1000	491	48/4.62	7/3.60	38.52	2222	556	2778	211.1	0.036
5	Falcon	1590	826.2	102.4	908.6	1000	492	54/4.36	19/2.62	39.26	2230	802	3032	249.8	0.03587
6	-	1590	803.5	34.9	838.4	1000	490	72/3.77	7/2.52	37.72	2222	273	2495	172.4	0.03598
7	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
8	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
9	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
10	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
11	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
12	Groues	80	40.54	14.12	84.7	50.31	24.7	8/2.54	1/4.24	9.32	111.2	110	221.2	22.8	0.7078
13	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
14	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
15	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
16	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
17	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
18	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
19	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
20	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
21	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

Aluminum Conductors Steel Reinforced (ACSR)



	Area					Equivalent Copper Area	Stranding and wire Diameter		Overall Diameter	Weight			Rated Strength	Maximum DC Resistance at 20 °C
	Nominal		Aluminium	Steel	Total		Aluminium	Steel		Aluminium	Steel	Total		
	Aluminium	Steel												
	mm ²	mm ²	mm ²	mm ²	mm ²		mm	mm		mm	Kg / Km	Kg / Km		
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	170	40	171.8	40.1	211.9	104.8	30/2.70	7/12.7	18.9	474.2	314.0	788.2	77.01	0.1682
16	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

Aluminum Conductors Steel Reinforced (ACSR)



	Area					Equivalent Copper Area	Stranding and wire Diameter		Overall Diameter	Weight			Rated Strength	Maximum DC Resistance at 20 °C
	Nominal		Aluminium	Steel	Total		Aluminium	Steel		Aluminium	Steel	Total		
	Aluminium	Steel												
	mm ²	mm ²	mm ²	mm ²	mm ²		mm	mm		mm	Kg / Km	Kg / Km		
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	560	50	561.7	79.5	611.2	343	48/3.86	7/3.00	32.2	1550.2	387.7	1937.9	146.28	0.0514
16	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

Aluminum Conductors Steel Reinforced (ACSR)



	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		
		mm ²	mm ²	mm ²		mm	mm		Kg / Km	Kg / Km	Kg / Km		
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	Canna 228	184.72	43.10	227.82	112.7	30/2.8	7/2.8	19.6	512	338	847	8050	0.1570
10	Crocus 228	184.72	43.10	227.82	112.7	30/2.8	7/2.8	19.6	510	338	847	9210	0.1570
11	Canna 288	233.8	54.55	288.35	142.6	30/3.15	7/3.15	22.05	645	426	1071	9850	0.1240
12	Crocus 288	233.8	54.55	288.35	142.6	30/3.15	7/3.15	22.05	645	426	1071	11380	0.1240
13	Crocus 297	221.67	75.54	297.21	135.2	36/2.8	19/2.25	22.45	618	592	1210	14720	0.1310
14	Crocus 412	325.72	85.95	411.67	198.7	32/3.6	19/2.4	26.4	906	674	1580	17330	0.0890
15	Crocus 612	507.83	104.79	611.8	309.8	66/4.24	19/2.65	32.03	1408	822	2230	23150	0.0571
16	Crocus 865	717.33	148.06	865.4	437.9	66/3.72	19/3.15	38.01	1990	1161	3151	31900	0.0404
17	Crocus 1185	956.66	227.82	1185	583.6	54/2.80 +	37/2.8	44.7	2668	1792	4460	48050	0.0304