

ACSR Aluminum Conductor. Steel Reinforced

ASTM B232

SI Unit

Code Word	Size AWG or kcmil	Stranding (Al/St.)	Diameter (mm)				Weight kg/km			Content %		Rated Strength (kN)	Resistance OHMS/1000m		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Turkey	6	6/1	1.68	1.68	1.68	5.03	36.46	17.25	53.7	67.88	32.12	5.29	2.1030	2.6443	105
Swan	4	6/1	2.12	2.12	2.12	6.35	57.88	27.39	85.3	67.88	32.12	8.28	1.3222	1.6896	140
Swanate	4	7/1	1.96	2.62	2.62	6.53	57.85	41.7	99.6	58.11	41.89	10.50	1.3090	1.7027	140
Sparrow	2	6/1	2.67	2.67	2.67	8.03	92.12	43.59	136	67.88	32.12	12.68	0.8333	1.0892	184
Sparate	2	7/1	2.47	3.30	3.30	8.26	92.16	66.46	159	58.1	41.9	15.39	0.8235	1.1089	184
Robin	1	6/1	3.00	3.00	3.00	8.99	116.3	55.01	171	67.88	32.12	15.79	0.6594	0.8793	212
Raven	1/0	6/1	3.37	3.37	3.37	10.11	146.6	69.35	216	67.88	32.12	19.49	0.5216	0.7119	242
Quail	2/0	6/1	3.78	3.78	3.78	11.35	184.6	87.37	272	67.88	32.12	23.62	0.4134	0.5774	276
Pigeon	3/0	6/1	4.25	4.25	4.25	12.75	232.7	110.1	343	67.88	32.12	29.45	0.3281	0.4724	315
Penguin	4/0	6/1	4.77	4.77	4.77	14.30	293.7	139.0	433	67.88	32.12	37.15	0.2608	0.3904	357
Waxwing	266.8	18/1	3.09	3.09	3.09	15.47	371.8	58.38	430	86.43	13.57	30.61	0.2110	0.2582	449
Partridge	266.8	26/7	2.57	2.00	6.00	16.31	374.0	171.9	546	68.51	31.49	50.27	0.2090	0.2556	475
Ostrich	300	26/7	2.73	2.12	6.37	17.27	420.2	193.2	613	68.51	31.49	56.50	0.1860	0.2274	492
Merlin	336.4	18/1	3.47	3.47	3.47	17.37	469.2	73.61	543	86.44	13.56	38.62	0.1673	0.2051	519
Linnet	336.4	26/7	2.89	2.25	6.74	18.29	471.0	216.5	687	68.51	31.49	62.73	0.1657	0.2028	529
Oriole	336.4	30/7	2.69	2.69	8.07	18.82	472.7	310.6	783	60.35	39.65	76.97	0.1647	0.2011	535
Chickadee	397.5	18/1	3.77	3.77	3.77	18.87	554.3	87.03	641	86.43	13.57	44.22	0.1417	0.1736	576
Brant	397.5	24/7	3.27	2.18	6.54	19.61	557.1	203.9	761	73.21	26.79	64.96	0.1411	0.1726	584
Ibis	397.5	26/7	3.14	2.44	7.33	19.89	556.6	255.8	812	68.51	31.49	72.52	0.1404	0.1716	587
Lark	397.5	30/7	2.92	2.92	8.77	20.47	558.4	366.9	925	60.35	39.65	90.31	0.1394	0.1703	594
Pelican	477	18/1	4.14	4.14	4.14	20.68	665.4	104.4	770	86.44	13.56	52.50	0.1181	0.1450	646
Flicker	477	24/7	3.58	2.39	7.16	21.49	668.8	244.7	913	73.21	26.79	76.52	0.1175	0.1440	655
Hawk	477	26/7	3.44	2.67	8.03	21.79	668.0	307.1	975	68.51	31.49	86.76	0.1168	0.1430	659
Hen	477	30/7	3.20	3.20	9.61	22.43	670.3	440.4	1111	60.35	39.65	105.9	0.1161	0.1421	666
Osprey	556.5	18/1	4.47	4.47	4.47	22.33	775.8	121.7	898	86.43	13.57	60.95	0.1010	0.1243	711

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Code Word	Size kcmil	Stranding (Al/St.)	Diameter mm				Weight kg/km			Content %		Rated Strength (kN)	Resistance OHMS/1000m		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Parakeet	556.5	24/7	3.87	2.58	7.73	23.22	780.1	285.5	1066	73.21	26.79	88.01	0.1007	0.1234	721
Dove	556.5	26/7	3.72	2.89	8.67	23.55	780.1	358.6	1139	68.51	31.49	100.5	0.1004	0.1230	726
Eagle	556.5	30/7	3.46	3.46	10.38	24.21	781.9	513.7	1296	60.35	39.65	123.6	0.0994	0.1220	734
Peacock	605	24/7	4.03	2.69	8.07	24.21	848.3	310.6	1159	73.2	26.8	96.01	0.0925	0.1135	760
Squab	605	26/7	3.87	3.01	9.04	24.54	847.5	389.5	1237	68.51	31.49	108.0	0.0922	0.1132	765
WoodDuck	605	30/7	3.61	3.61	10.82	25.25	850.0	558.4	1408	60.35	39.65	128.5	0.0915	0.1122	774
Teal	605	30/19	3.61	2.16	10.82	25.25	850.0	546.6	1397	60.86	39.14	133.4	0.0915	0.1122	773
Kingbird	636	18/1	4.78	4.78	4.78	23.88	887.3	139.3	1027	86.43	13.57	69.79	0.0886	0.1089	773
Swift	636	36/1	3.38	3.38	3.38	23.62	886.9	69.63	956	92.72	7.28	60.85	0.0889	0.1096	769
Rook	636	24/7	4.14	2.76	8.27	24.82	891.3	326.16	1217	73.21	26.79	97.79	0.0879	0.1083	784
Grosbeak	636	26/7	3.97	3.09	9.27	25.17	891.2	409.6	1301	68.51	31.49	112.0	0.0876	0.1076	789
Scoter	636	30/7	3.70	3.70	11.09	25.88	893.61	587.1	1481	60.35	39.65	135.1	0.0840	0.1066	798
Egret	636	30/19	3.70	2.22	11.09	25.88	893.86	575.1	1469	60.85	39.15	140.0	0.0873	0.1070	798
Flamingo	666.6	24/7	4.23	2.82	8.47	25.40	934.57	342.0	1277	73.21	26.79	105.3	0.0840	0.1033	807
Gannet	666.6	26/7	4.07	3.16	9.49	25.76	934	429.3	1363	68.51	31.49	117.3	0.0837	0.1027	812
Stilt	715.5	24/7	4.39	2.92	8.77	26.31	1003.2	366.9	1370	73.22	26.78	113.3	0.0784	0.0965	844
Starling	715.5	26/7	4.21	3.28	9.83	26.70	1002.8	460.9	1464	68.51	31.49	126.2	0.0781	0.0958	849
Redwing	715.5	30/19	3.92	2.35	11.77	27.46	1004.4	646.2	1651	60.85	39.15	153.8	0.0774	0.0951	859
Coot	795	36/1	3.77	3.77	3.77	26.42	1108.7	87.05	1196	92.72	7.28	74.28	0.0712	0.0879	884
Drake	795	26/7	4.44	3.45	10.36	28.12	1114.6	512.3	1627	68.51	31.49	140.0	0.0702	0.0863	907
Tern	795	45/7	3.38	2.25	6.75	27.00	1113.9	217.4	1331	83.67	16.33	98.23	0.0709	0.0883	887
Condor	795	54/7	3.08	3.08	9.25	27.74	1114	407.6	1522	73.21	26.79	125.3	0.0705	0.0892	889
Mallard	795	30/19	4.14	2.48	12.41	28.96	1117.4	718.6	1836	60.86	39.14	170.7	0.0699	0.0856	918
Ruddy	900	45/7	3.59	2.40	7.18	28.73	1261.2	246.2	1507	83.67	16.33	108.5	0.0627	0.0784	958
Canary	900	54/7	3.28	3.28	9.84	29.51	1261.6	461.4	1723	73.22	26.78	141.8	0.0623	0.0791	961

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			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Rail	954	45/7	3.70	2.47	7.40	29.59	1337.1	261.0	1598	83.67	16.33	115.1	0.0591	0.0738	993
Cardinal	954	54/7	3.38	3.38	10.13	30.38	1336.8	489.2	1826	73.21	26.79	150.2	0.0587	0.0748	996
Ortolan	1033.5	45/7	3.85	2.57	7.70	30.78	1447.6	282.5	1730	83.67	16.33	123.1	0.0548	0.0686	1043
Curlew	1033.5	54/7	3.51	3.51	10.54	31.62	1447.6	529.7	1977	73.21	26.79	162.7	0.0541	0.0692	1047
Bluejay	1113	45/7	4.00	2.66	7.99	31.95	1560.7	304.6	1865	83.67	16.33	132.5	0.0509	0.0636	1092
Finch	1113	54/19	3.65	2.19	10.94	32.82	1568.8	559.2	2128	73.72	26.28	173.8	0.0505	0.0646	1093
Bunting	1192.5	45/7	4.14	2.76	8.27	33.07	1671.4	326.2	1998	83.67	16.33	142.2	0.0472	0.0597	1139
Grackle	1192.5	54/19	3.77	2.27	11.32	33.96	1679.9	598.9	2279	73.72	26.28	186.2	0.0472	0.0604	1140
Bittern	1272	45/7	4.27	2.85	8.54	34.16	1782.4	347.9	2130	83.67	16.33	151.6	0.0443	0.0561	1184
Pheasant	1272	54/19	3.90	2.34	11.70	35.08	1791.9	639.1	2431	73.71	26.29	153.8	0.0443	0.0568	1187
Dipper	1351.5	45/7	4.40	2.93	8.80	35.20	1893.9	369.64	2264	83.67	16.33	160.9	0.0417	0.0531	1229
Martin	1351.5	54/19	4.02	2.41	12.05	36.17	1903.2	678.5	2582	73.72	26.28	205.8	0.0417	0.0535	1232
Bobolink	1431	45/7	4.53	3.02	9.06	36.25	2005.2	391.4	2397	83.67	16.33	170.2	0.0394	0.0502	1272
Lapwing	1590	45/7	4.78	3.18	9.55	38.20	2228.9	435.0	2664	83.67	16.33	187.6	0.0354	0.0456	1354
Falcon	1590	54/19	4.36	2.62	13.08	39.22	2240.1	798.6	3039	73.72	26.28	242.3	0.0354	0.0459	1359
Chukar	1780	84/19	3.70	2.22	11.09	40.69	2508.8	575.0	3083	81.35	18.65	226.7	0.0318	0.0410	1453
Bluebird	2156	84/19	4.07	2.44	12.21	44.75	3035.4	696.4	3732	81.34	18.66	268.0	0.0263	0.0344	1623
Kiwi	1098	72/7	4.41	2.94	8.81	44.07	3052.8	370.4	3423	89.18	10.82	221.4	0.0263	0.0348	1607

ACSR		High Strength					ASTM B232					SI Unit			
Code Word	Size kcmil	Stranding (Al/St.)	Diameter mm				Weight kg/km			Content %		Rated Strength (kN)	Resistance OHMS/1000m		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Grouse	80	8/1	2.54	4.23	4.23	9.32	111.8	109.7	221.5	50.48	49.52	23.11	0.6791	0.9646	204
Petrel	101.8	12/7	2.34	2.34	7.02	11.71	142.7	234.9	377.6	37.79	62.21	46.23	0.5184	0.8202	237
Minorca	110.8	12/7	2.44	2.44	7.33	12.22	155.2	255.9	411.1	37.75	62.25	50.23	0.4757	0.7710	248
Leghorn	134.6	12/7	2.69	2.69	8.07	13.46	188.6	310.6	499.2	37.79	62.21	60.45	0.3937	0.6693	273
Guinea	159	12/7	2.92	2.92	8.77	14.63	222.8	366.9	589.7	37.79	62.21	71.12	0.3314	0.5938	297
Dotterel	176.9	12/7	3.08	3.08	9.25	15.42	247.9	408.1	656.1	37.79	62.21	76.90	0.2989	0.5545	312
Dorking	190.8	12/7	3.20	3.20	9.61	16.00	267.5	440.4	707.8	37.79	62.21	83.12	0.2772	0.5249	324
Cochin	211.3	12/7	3.37	3.37	10.11	16.84	296.3	487.6	783.9	37.8	62.2	126.2	0.2503	0.4921	340

Currency rating conditions: Conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 0.6m/sec. and in sun.
 Allowable ampacity is calculated for reference only.

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ACSR

ASTM B232

Inch-pound Unit

Code Word	Size AWG or kcmil	Stranding (Al/St.)	Diameter (in.)				Weight per 1000ft (lbs)			Content %		Rated Strength (lbs)	Resistance OHMS/1000ft.		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Turkey	6	6/1	0.0661	0.0661	0.0661	0.198	24.5	11.6	36.1	67.88	32.12	1190	0.641	0.806	105
Swan	4	6/1	0.0834	0.0834	0.0834	0.25	38.9	18.4	57.3	67.88	32.12	1860	0.403	0.515	140
Swanate	4	7/1	0.0772	0.103	0.103	0.257	38.9	28.0	66.9	58.11	41.89	2360	0.399	0.519	140
Sparrow	2	6/1	0.1052	0.1052	0.1052	0.316	61.9	29.3	91.2	67.88	32.12	2850	0.254	0.332	184
Sparate	2	7/1	0.0974	0.1298	0.1298	0.325	61.9	44.7	106.6	58.1	41.9	3460	0.251	0.338	184
Robin	1	6/1	0.1181	0.1181	0.1181	0.354	78.1	37.0	115.1	67.88	32.12	3550	0.201	0.268	212
Raven	1/0	6/1	0.1327	0.1327	0.1327	0.398	98.5	46.6	145.1	67.88	32.12	4380	0.159	0.217	242
Quail	2/0	6/1	0.1489	0.1489	0.1489	0.447	124.1	53.7	182.8	67.88	32.12	5310	0.126	0.176	276
Pigeon	3/0	6/1	0.1672	0.1672	0.1672	0.502	156.4	74.0	230.4	67.88	32.12	6620	0.1	0.144	315
Penguin	4/0	6/1	0.1878	0.1878	0.1878	0.563	197.4	93.4	290.8	67.88	32.12	8350	0.0795	0.119	357
Waxwing	266.8	18/1	0.1217	0.1217	0.1217	0.609	249.9	39.2	289.1	86.43	13.57	6880	0.0643	0.0787	449
Partridge	266.8	26/7	0.1013	0.0788	0.2363	0.642	251.4	115.5	366.9	68.51	31.49	11300	0.0637	0.0779	475
Ostrich	300	26/7	0.1074	0.0835	0.2506	0.68	282.4	129.8	412.2	68.51	31.49	12700	0.0567	0.0693	492
Merlin	336.4	18/1	0.1367	0.1367	0.1367	0.684	315.3	49.5	364.8	86.44	13.56	8680	0.051	0.0625	519
Linnet	336.4	26/7	0.1137	0.0885	0.2654	0.72	316.5	145.5	462.0	68.51	31.49	14100	0.0505	0.0618	529
Oriole	336.4	30/7	0.1059	0.1059	0.3177	0.741	317.7	208.7	526.4	60.35	39.65	17300	0.0502	0.0613	535
Chickadee	397.5	18/1	0.1486	0.1486	0.1486	0.743	372.5	58.5	431.0	86.43	13.57	9940	0.0432	0.0529	576
Brant	397.5	24/7	0.1287	0.0858	0.2574	0.772	374.4	137.0	511.4	73.21	26.79	14600	0.043	0.0526	584
Ibis	397.5	26/7	0.1236	0.0962	0.2885	0.783	374.1	171.9	546.0	68.51	31.49	16300	0.0428	0.0523	587
Lark	397.5	30/7	0.1151	0.1151	0.3453	0.806	375.3	246.5	621.8	60.35	39.65	20300	0.0425	0.0519	594
Pelican	477	18/1	0.1628	0.1628	0.1628	0.814	447.2	70.1	517.3	86.44	13.56	11800	0.036	0.0442	646
Flicker	477	24/7	0.141	0.094	0.2819	0.846	449.4	164.5	613.9	73.21	26.79	17200	0.0358	0.0439	655
Hawk	477	26/7	0.1354	0.1053	0.316	0.858	448.9	206.4	655.3	68.51	31.49	19500	0.0356	0.0436	659
Hen	477	30/7	0.1261	0.1261	0.3783	0.883	450.5	295.9	746.4	60.35	39.65	23800	0.0354	0.0433	666
Osprey	556.5	18/1	0.1758	0.1758	0.1758	0.879	521.4	81.8	603.3	86.43	13.57	13700	0.0308	0.0379	711

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Inch-pound Unit

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			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Parakeet	556.5	24/7	0.1523	0.1015	0.3045	0.914	524.3	191.8	716.1	73.21	26.79	19800	0.0307	0.0376	721
Dove	556.5	26/7	0.1463	0.1138	0.3413	0.927	524.2	241.0	765.2	68.51	31.49	22600	0.0306	0.0375	726
Eagle	556.5	30/7	0.1362	0.1362	0.4086	0.953	525.5	345.2	870.7	60.35	39.65	27800	0.0303	0.0372	734
Peacock	605	24/7	0.1588	0.1059	0.3177	0.953	570.1	208.7	778.8	73.2	26.8	21600	0.0282	0.0346	760
Squab	605	26/7	0.1525	0.1186	0.3559	0.966	569.5	261.8	831.3	68.51	31.49	24300	0.0281	0.0345	765
WoodDuck	605	30/7	0.142	0.142	0.426	0.994	571.2	375.3	946.5	60.35	39.65	28900	0.0279	0.0342	774
Teal	605	30/19	0.142	0.0852	0.426	0.994	571.2	367.4	938.6	60.86	39.14	30000	0.0279	0.0342	773
Kingbird	636	18/1	0.188	0.188	0.488	0.94	596.3	93.6	689.9	86.43	13.57	15700	0.027	0.0332	773
Swift	636	36/1	0.1329	0.1329	0.329	0.93	596.0	46.8	642.8	92.72	7.28	13690	0.0271	0.0334	769
Rook	636	24/7	0.1628	0.1085	0.3256	0.977	599.0	219.2	818.2	73.21	26.79	22000	0.0268	0.033	784
Grosbeak	636	26/7	0.1564	0.1216	0.3649	0.991	598.9	275.3	874.2	68.51	31.49	25200	0.0267	0.0328	789
Scoter	636	30/7	0.1456	0.1456	0.4368	1.019	600.5	394.6	995.1	60.35	39.65	30400	0.0256	0.0325	798
Egret	636	30/19	0.1456	0.0874	0.4368	1.019	600.7	386.5	987.2	60.85	39.15	31500	0.0266	0.0326	798
Flamingo	666.6	24/7	0.1667	0.1111	0.3333	1.014	628.1	229.8	857.9	73.21	26.79	23700	0.0256	0.0315	807
Gannet	666.6	26/7	0.1601	0.1245	0.3736	1.014	627.7	288.5	916.2	68.51	31.49	26400	0.0255	0.0313	812
Stilt	715.5	24/7	0.1727	0.1151	0.3453	1.036	674.2	246.6	920.8	73.22	26.78	25500	0.0239	0.0294	844
Starling	715.5	26/7	0.1659	0.129	0.3871	1.051	673.9	309.8	983.7	68.51	31.49	28400	0.0238	0.0292	849
Redwing	715.5	30/19	0.1544	0.0927	0.4633	1.081	675.0	434.3	1109.3	60.85	39.15	34600	0.0236	0.029	859
Coot	795	36/1	0.1486	0.1486	0.486	1.04	745.1	58.5	803.6	92.72	7.28	16710	0.0217	0.0268	884
Drake	795	26/7	0.1749	0.136	0.408	1.107	749.1	344.3	1093.4	68.51	31.49	31500	0.0214	0.0263	907
Tern	795	45/7	0.1329	0.0886	0.2658	1.063	748.6	146.1	894.7	83.67	16.33	22100	0.0216	0.0269	887
Condor	795	54/7	0.1213	0.1213	0.364	1.092	748.6	274.0	1022.6	73.21	26.79	28200	0.0215	0.0272	889
Mallard	795	30/19	0.1628	0.0977	0.4884	1.14	751.0	482.9	1233.9	60.86	39.14	38400	0.0213	0.0261	918
Ruddy	900	45/7	0.1414	0.0943	0.2828	1.131	847.6	165.4	1013.0	83.67	16.33	24400	0.0191	0.0239	958
Canary	900	54/7	0.1291	0.1291	0.3873	1.162	847.8	310.1	1157.9	73.22	26.78	31900	0.019	0.0241	961

ACSR

ASTM B232

Inch-pound Unit

Code Word	Size AWG or kcmil	Stranding (Al/St.)	Diameter (in.)				Weight per 1000ft (lbs)			Content %		Rated Strength (lbs)	Resistance OHMS/1000ft.		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Rail	954	45/7	0.1456	0.0971	0.2912	1.165	898.6	175.4	1074.0	83.67	16.33	25900	0.018	0.0225	993
Cardinal	954	54/7	0.1329	0.1329	0.3987	1.196	898.4	328.7	1227.1	73.21	26.79	33800	0.0179	0.0228	996
Ortolan	1034	45/7	0.1515	0.101	0.3031	1.212	972.8	189.9	1162.7	83.67	16.33	27700	0.0167	0.0209	1043
Curlew	1034	54/7	0.1383	0.1383	0.415	1.245	972.8	356.0	1328.8	73.21	26.79	36600	0.0165	0.0211	1047
Bluejay	1113	45/7	0.1573	0.1048	0.3145	1.258	1048.9	204.7	1253.6	83.67	16.33	29800	0.0155	0.0194	1092
Finch	1113	54/19	0.1436	0.0861	0.4307	1.292	1054.3	375.8	1430.1	73.72	26.28	39100	0.0154	0.0197	1093
Bunting	1193	45/7	0.1628	0.1085	0.3256	1.302	1123.3	219.2	1342.5	83.67	16.33	32000	0.0144	0.0182	1139
Grackle	1193	54/19	0.1486	0.0892	0.4458	1.337	1128.9	402.5	1531.4	73.72	26.28	41900	0.0144	0.0184	1140
Bittern	1272	45/7	0.1681	0.1121	0.3362	1.345	1197.8	233.8	1431.6	83.67	16.33	34100	0.0135	0.0171	1184
Pheasant	1272	54/19	0.1535	0.0921	0.4605	1.381	1204.2	429.5	1633.7	73.71	26.29	34600	0.0135	0.0173	1187
Dipper	1352	45/7	0.1733	0.1155	0.3466	1.386	1272.8	248.4	1521.2	83.67	16.33	36200	0.0127	0.0162	1229
Martin	1352	54/19	0.1582	0.0949	0.4746	1.424	1279.0	456.0	1735.0	73.72	26.28	46300	0.0127	0.0163	1232
Bobolink	1431	45/7	0.1783	0.1189	0.3566	1.427	1347.6	263.0	1610.6	83.67	16.33	38300	0.012	0.0153	1272
Lapwing	1590	45/7	0.188	0.1253	0.3759	1.504	1497.9	292.4	1790.3	83.67	16.33	42200	0.0108	0.0139	1354
Falcon	1590	54/19	0.1716	0.103	0.5148	1.544	1505.4	536.7	2042.1	73.72	26.28	54500	0.0108	0.014	1359
Chukar	1780	84/19	0.1456	0.0874	0.4368	1.602	1685.7	386.4	2072.1	81.35	18.65	51000	0.0097	0.0125	1453
Bluebird	2156	84/19	0.1602	0.0962	0.4808	1.762	2039.9	468.0	2507.9	81.34	18.66	60300	0.008	0.0105	1623
Kiwi	2167	72/7	0.1735	0.1157	0.347	1.735	2051.6	248.9	2300.5	89.18	10.82	49800	0.008	0.0106	1607

ACSR		High Strength		ASTM B232			Inch-Pound Unit								
Code Word	Size AWG or kcmil	Stranding (Al/St.)	Diameter (in.)				Weight per 1000ft (lbs)			Content %		Rated Strength (lbs)	Resistance OHMS/1000ft.		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Grouse	80	8/1	0.1	0.1667	0.1667	0.367	75.2	73.7	148.9	50.48	49.52	5200	0.207	0.294	204
Petrel	101.8	12/7	0.0921	0.0921	0.2763	0.461	95.9	157.9	253.8	37.79	62.21	10400	0.158	0.25	237
Minorca	110.8	12/7	0.0961	0.0962	0.2885	0.481	104.3	172.0	276.3	37.75	62.25	11300	0.145	0.235	248
Leghorn	134.6	12/7	0.1059	0.1059	0.3177	0.53	126.8	208.7	335.5	37.79	62.21	13600	0.12	0.204	273
Guinea	159	12/7	0.1151	0.1151	0.3453	0.576	149.8	246.5	396.3	37.79	62.21	16000	0.101	0.181	297
Dotterel	176.9	12/7	0.1214	0.1214	0.3642	0.607	166.6	274.3	440.9	37.79	62.21	17300	0.0911	0.169	312
Dorking	190.8	12/7	0.1261	0.1261	0.3783	0.63	179.8	295.9	475.7	37.79	62.21	18700	0.0845	0.16	324
Cochin	211.3	12/7	0.1327	0.1327	0.398	0.663	199.1	327.7	526.8	37.8	62.2	28400	0.0763	0.15	340

Currency rating conditions: Conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 2ft./sec. and in sun.

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ACSR/AW Aluminum conductors, aluminum-clad steel-reinforced

ACSR/AW BS 215:1970

Nominal Aluminum Area mm ²	Name Code	Stranding and wire diameter		Sectional Area of Aluminum mm ²	Total Sectional Area mm ²	Appro. Overall Diameter mm	Appro. Mass kg/km	Calculated DC. resistance @ 20°C Ω/km	Calculated Breaking load kN
		Aluminum mm	AS mm						
25	GOPHER	6/2.36	1/2.36	26.25	30.62	7.08	100.8	1.0349	9.89
30	WEASEL	6/2.59	1/2.59	31.61	36.88	7.77	121.5	0.8592	11.79
40	FERRET	6/3.00	1/3.00	42.41	49.48	9.00	163.0	0.6405	15.66
50	RABBIT	6/3.35	1/3.35	52.88	61.70	10.05	203.2	0.5136	19.06
70	HORSE	12/2.79	7/2.79	73.37	116.2	13.95	243.1	0.3286	63.95
100	DOG	6/4.72	7/1.57	105.0	118.5	14.15	300.9	0.2619	33.01
150	WOLF	30/2.59	7/2.59	158.1	194.9	18.13	471.6	0.1694	71.64
150	DINGO	18/3.35	1/3.35	158.7	167.5	16.75	495.0	0.1781	36.46
175	LYNX	30/2.79	7/2.79	183.4	226.2	19.53	547.3	0.1460	82.49
175	CARACAL	18/3.61	1/3.61	184.3	194.5	18.05	574.9	0.1534	41.52
200	PANTHER	30/3.00	7/3.00	212.1	261.5	21.00	632.8	0.1263	95.34
200	JAGUAR	18/3.86	1/3.86	210.6	222.3	19.30	657.2	0.1342	46.50
400	ZEBRA	54/3.18	7/3.18	428.9	484.5	28.62	1238	0.06456	137.76

ACSR/AW**Aluminum Conductor, Aluminum-Clad Steel Reinforced****ASTM B549****Metric Units**

Code Word	Conductor Size mm ²	Strand- ing (Al/St.)	Diameter, mm			Rated Strength kN	Linear Weight kg/km	Resistance Ω/km		Allowable Ampacity Amps
			AL	ACS	Cable			DC @20°C	AC @75°C	
Sparrow/AW	33.62	6/1	2.67	2.67	8.03	12.30	129	0.8077	0.9833	194
Robin/AW	42.41	6/1	3.00	3.00	8.99	15.35	163	0.6398	0.7785	225
Raven/AW	53.51	6/1	3.37	3.37	10.11	18.91	205	0.5075	0.6181	260
Quail/AW	67.44	6/1	3.78	3.78	11.35	22.82	259	0.4026	0.4902	301
Pigeon/AW	85.02	6/1	4.25	4.25	12.75	28.03	326	0.3198	0.3898	347
Penguin/AW	107.2	6/1	4.77	4.77	14.30	34.21	411	0.2535	0.3091	402
Waxwing/AW	135.2	18/1	3.09	3.09	15.47	30.34	421	0.2088	0.2551	451
Partridge/AW	135.2	26/7	2.57	2.00	16.31	48.05	520	0.2024	0.2474	465
Ostrich/AW	152.0	26/7	2.73	2.12	17.27	53.83	584	0.1801	0.2202	500
Merlin/AW	170.5	18/1	3.47	3.47	17.37	37.99	532	0.1655	0.2026	522
Linne/AW	170.5	26/7	2.89	2.25	18.29	60.06	654	0.1607	0.1965	537
Oriole/AW	170.5	30/7	2.69	2.69	18.82	74.30	736	0.1573	0.1923	547
Chickadee/AW	201.4	18/1	3.77	3.77	18.87	43.51	628	0.1400	0.1716	580
Bran/AW	201.4	24/7	3.27	2.18	19.61	62.73	730	0.1373	0.1681	592
Ibis/AW	201.4	26/7	3.14	2.44	19.89	70.29	773	0.1360	0.1664	597
Lark/AW	201.4	30/7	2.92	2.92	20.47	87.20	869	0.1332	0.1629	608
Pelican /AW	241.7	18/7	4.14	4.14	20.68	51.16	754	0.1167	0.1425	651
Flicker /AW	241.7	24/1	3.58	2.39	21.49	74.30	876	0.1144	0.1402	663
Kawk /AW	241.7	26/7	3.44	2.67	21.79	84.09	928	0.1133	0.1388	669
Hen /AW	241.7	30/7	3.20	3.20	22.43	104.1	1043	0.1110	0.1358	682
Osprey/AW	282.0	18/1	4.47	4.47	22.33	58.73	879	0.1001	0.1230	715
Parakee/AW	282.0	24/7	3.87	2.58	23.22	85.87	1022	0.0981	0.1203	731
Dove/AW	282.0	26/7	3.72	2.89	23.55	97.43	1084	0.0970	0.1190	737
Eagle/AW	282.0	30/7	3.46	3.46	24.21	119.2	1217	0.0951	0.1165	751
Peacock/AW	306.6	24/7	4.03	2.69	24.21	93.43	1111	0.0902	0.1108	770
Squab/AW	306.6	26/7	3.87	3.01	24.54	105.0	1178	0.0849	0.1096	777
Teal/AW	306.6	30/19	3.61	2.16	25.25	126.8	1313	0.0877	0.1074	791
Kingbird/AW	322.3	18/1	4.78	4.78	23.88	66.74	1005	0.0875	0.1078	778
Rook/AW	322.3	24/7	4.14	2.76	24.82	97.88	1168	0.0858	0.1055	794
Grosbeak/AW	322.3	26/7	3.97	3.09	25.15	110.3	1238	0.0849	0.1043	801
Egret/AW	322.3	30/19	3.70	2.22	25.88	133.0	1381	0.0834	0.1023	815
Flamingo/AW	337.8	24/7	4.23	2.82	25.40	102.8	1224	0.0819	0.1007	818
Gannet/AW	337.8	26/7	4.07	3.16	25.76	115.7	1298	0.0810	0.0995	825
Starling/AW	362.3	26/7	4.21	3.28	26.70	122.3	1393	0.0755	0.0928	863
Redwing/AW	362.3	30/19	3.92	2.35	27.46	148.6	1552	0.0741	0.0911	878
Term/AW	402.8	45/7	3.38	2.25	27.00	95.65	1298	0.0700	0.0865	896
Cuckoo/AW	402.8	24/7	4.62	3.08	27.74	122.3	1459	0.0687	0.0847	913

ACS=Aluminum Clad Steel Wire

ACSR/AW ASTM B549 Metric Units

Code Word	Conductor Size mm ²	Strand-ing (Al/St.)	Diameter, mm			Rated Strength kN	Linear Weight kg/km	Resistance Ω/km		Allowable Ampacity Amps
			AL	ACS	Cable			DC @20°C	AC @75°C	
Condor/AW	402.8	54/7	3.08	3.08	27.72	123.7	1459	0.0686	0.0846	913
Drak/AW	402.8	26/7	4.44	3.45	28.11	135.7	1549	0.0679	0.0836	922
Mallard/AW	402.8	30/19	4.14	2.48	28.04	165.1	1726	0.0667	0.0820	938
Ruddy/AW	456.0	54/7	3.28	3.28	28.73	137.9	1653	0.0619	0.0764	970
Canary/AW	456.0	45/7	3.59	2.40	29.51	106.8	1470	0.0607	0.0750	986
Cardinal /AW	483.4	54/7	3.38	3.38	29.59	146.4	1751	0.0584	0.0709	1022
Rail /AW	483.4	45/7	3.70	2.47	29.61	113.0	1558	0.0572	0.0725	1003
Ortolan/AW	523.7	54/7	3.51	3.51	30.78	158.4	1896	0.0538	0.0671	1054
Curlew/AW	523.7	45/7	3.85	2.57	31.65	120.6	1687	0.0528	0.0655	1074
Bluejay/AW	564.0	54/19	3.65	2.19	31.98	166.8	2043	0.0527	0.0625	1103
Finch/AW	564.0	45/7	4.00	2.66	32.84	130.4	1819	0.0493	0.0614	1121
Bunting/AW	604.2	54/19	3.77	2.27	33.07	178.8	2187	0.0467	0.0585	1150
Grackle/AW	604.2	45/7	4.14	2.76	33.99	139.3	1948	0.0460	0.0574	1168
Bittern/AW	644.5	54/19	3.90	2.34	34.16	188.6	2333	0.0438	0.0551	1196
Pheasant/AW	644.5	45/7	4.27	2.85	35.10	148.6	2077	0.0431	0.0540	1216
Dipper/AW	684.6	54/19	4.02	2.41	35.20	200.6	2478	0.0412	0.0520	1240
Martin/AW	684.6	45/7	4.40	2.93	36.17	157.9	2207	0.0406	0.0510	1261
Bobolink/AW	725.1	54/19	4.14	2.48	36.25	212.2	2625	0.0389	0.0493	1283
Plover/AW	725.1	45/7	4.53	3.02	37.13	167.3	2337	0.0384	0.0483	1306
Nuthatch/AW	765.1	54/19	4.25	2.55	37.21	223.8	2768	0.0369	0.0469	1326
Parrot/AW	765.1	45/7	4.65	3.10	38.23	176.6	2467	0.0363	0.0458	1351
Lapwing/AW	805.7	54/19	4.36	2.62	38.20	235.8	2917	0.0351	0.0448	1365
Falcon/AW	805.7	45/7	4.78	3.18	39.24	186.0	2598	0.0345	0.0438	1391
Chukar/AW	901.9	84/19	3.70	2.22	40.69	219.8	2995	0.0319	0.0403	1464
Kiwi/AW	1098	72/7	4.41	2.94	44.07	218.4	3367	0.0260	0.0340	1634
Bluebird/AW	1092	84/19	4.07	2.44	44.75	262.5	3626	0.0258	0.0346	1613
Thrasher/AW	1171	76/19	4.43	2.07	45.79	246.0	3678	0.0243	0.0326	1680

High Strength Conductor Metric Units

Code Word	Conductor Size mm ²	Strand-ing (Al/St.)	Diameter mm			Rated Strength kN	Linear Weight kg/km	Resistance Ω/km		Allowable Ampacity Amps
			AL	ACS	Cable			DC @20°C	AC @75°C	
Grouse/AW	40.54	8/1	2.54	4.24	9.32	21.8	205	0.6371	0.7733	227
Petrel/AW	51.58	12/7	2.34	2.34	11.68	44.1	342	0.4675	0.5695	281
Minorca/AW	56.14	12/7	2.44	2.44	12.22	48.0	372	0.4350	0.5230	297
Leghorn/AW	68.20	12/7	2.69	2.69	13.46	57.8	452	0.3537	0.4308	335
Guinea/AW	80.57	12/7	2.92	2.92	14.63	68.1	534	0.2993	0.3648	372
Dotterel/AW	89.64	12/7	3.08	3.08	15.42	75.2	594	0.2691	0.3277	398
Dorking/AW	96.68	12/7	3.20	3.20	16.03	81.4	641	0.2494	0.3038	418
Brahma/AW	103.0	16/19	2.86	2.48	18.14	120.6	894	0.2155	0.2623	464
Cochin/AW	107.1	12/7	3.37	3.37	16.87	88.1	709	0.2252	0.2744	445

Ampacity based on conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 0.6m/sec. and in sun.