

## Aluminium Conductor Steel Reinforced (ACSR/GA(X) or MA(X))

ACSR/RW (GA(X) or MA(X)) (ASTM B232)

Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (by type and coating of steel wires) (kN)					Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total	GA2 or MA2	GA3 or MA3	GA4 or MA4	GA5 or MA5	DC at 20 °C	AC at 25 °C	AC at 75 °C				
Turkey	6	1	1.68	1.68	5.04	13.28	2.21	15.50	36.47	17.22	53.69	5.29	5.60	5.78	5.87	2.1072	2.1495	2.5719	18.90	8414.29	19.29	
Swanate	7	1	1.96	2.61	6.54	21.14	5.37	26.50	58.04	41.74	99.78	10.50	11.21	11.74	11.92	1.3075	1.3337	1.5951	17.73	9295.92	18.83	
Swan	6	1	2.12	2.12	6.36	21.15	3.52	24.67	58.06	27.42	85.48	8.27	8.76	9.12	9.21	1.3237	1.3503	1.6156	18.90	8414.29	19.29	
Sparrow	6	1	2.67	2.67	8.02	33.65	5.61	39.25	92.38	43.63	136.00	12.68	13.39	13.97	14.14	0.8319	0.8487	1.0155	18.90	8414.29	19.29	
Sparate	7	1	2.47	3.30	8.25	33.65	8.55	42.20	92.38	66.52	158.90	16.19	17.35	18.19	18.46	0.8214	0.8379	1.0021	17.73	9298.70	18.83	
Grouse	8	1	2.54	4.24	9.32	40.54	14.13	54.67	111.84	109.94	221.78	23.13	25.49	26.87	27.36	0.6758	0.6893	0.8241	16.82	10125.76	18.43	
Robin	6	1	3.00	3.00	9.00	42.40	7.07	49.47	116.42	54.98	171.40	15.79	16.72	17.44	17.70	0.6601	0.6736	0.8059	18.90	8414.29	19.29	
Petrel	12	7	2.34	2.34	11.70	51.58	30.09	81.66	143.00	235.00	378.00	46.26	49.82	52.93	53.82	0.5164	0.5268	0.6290	15.41	11752.63	17.97	
Raven	6	1	3.37	3.37	10.11	53.53	8.92	62.46	146.98	69.42	216.40	19.48	20.68	21.57	21.84	0.5228	0.5335	0.6383	18.90	8414.29	19.29	
Minorca	12	7	2.44	2.44	12.20	56.15	32.76	88.91	155.69	255.86	411.55	50.26	54.27	57.82	58.71	0.4743	0.4838	0.5778	15.41	11752.63	17.97	
Quail	6	1	3.78	3.78	11.35	67.40	11.23	78.64	185.06	87.40	272.46	23.57	25.44	27.03	26.91	0.4153	0.4239	0.5072	18.90	8414.29	19.29	
Lenhorn	12	7	2.69	2.69	13.45	68.19	39.78	107.97	189.06	310.70	499.77	60.49	65.83	69.83	71.17	0.3906	0.3986	0.4759	15.41	11752.63	17.97	
Guinea	12	7	2.92	2.92	14.62	80.55	46.99	127.54	223.34	367.03	590.37	71.17	77.40	81.84	83.62	0.3306	0.3376	0.4031	15.41	11752.63	17.97	
Pigeon	6	1	4.25	4.25	12.74	84.99	14.17	99.16	233.35	110.20	343.55	29.45	31.80	33.18	33.67	0.3293	0.3364	0.4025	18.90	8414.29	19.29	
Dotterel	12	7	3.08	3.08	15.42	89.61	52.27	141.88	248.46	408.31	656.77	76.95	84.07	89.40	90.74	0.2972	0.3035	0.3624	15.41	11752.63	17.97	
Dorking	12	7	3.20	3.20	16.01	96.68	56.40	153.08	268.07	440.54	708.61	83.18	90.74	96.08	98.30	0.2754	0.2813	0.3359	15.41	11752.63	17.97	
Brahma	16	19	2.86	2.48	15.27	102.97	91.89	194.86	285.50	719.23	1004.72	126.32	138.33	147.23	149.90	0.2481	0.2535	0.3023	14.40	13279.37	18.17	
Cochin	12	7	3.37	3.37	16.85	107.07	62.46	169.53	296.86	487.86	784.73	92.07	100.52	106.75	108.53	0.2487	0.2542	0.3036	15.41	11752.63	17.97	
Penguin	6	1	4.77	4.77	14.31	107.22	17.87	125.09	294.39	139.03	433.42	37.14	40.08	41.86	42.48	0.2610	0.2666	0.3190	18.90	8414.29	19.29	
Waxwing	18	1	3.09	3.09	15.46	135.08	7.50	142.59	372.71	58.39	431.09	30.69	31.58	76.82	32.56	0.2117	0.2164	0.2590	21.20	7078.95	19.87	
Partridge	26	7	2.57	2.00	16.30	135.19	22.02	157.21	374.82	172.03	546.86	50.26	52.93	55.16	56.04	0.2092	0.2138	0.2558	18.96	8373.35	19.31	
Ostrich	26	7	2.73	2.12	17.27	151.96	24.73	176.69	421.33	193.17	614.49	56.49	59.60	62.27	63.16	0.1861	0.1905	0.2279	18.96	8371.42	19.31	
Linnet	26	7	2.89	2.25	18.29	170.31	27.72	198.03	472.20	216.50	688.71	62.72	66.28	68.94	69.83	0.1660	0.1699	0.2033	18.96	8371.50	19.31	
Merlin	18	1	3.47	3.47	17.36	170.43	9.47	179.90	470.24	73.66	543.91	38.70	39.85	40.79	41.10	0.1678	0.1717	0.2056	21.20	7078.95	19.87	
Oriole	30	7	2.69	2.69	18.83	170.47	39.78	210.25	473.81	310.70	784.52	76.95	82.29	86.29	87.63	0.1646	0.1687	0.2018	17.97	9100.00	18.93	
Chickadee	18	1	3.76	3.77	18.82	200.04	11.19	211.23	551.94	87.05	638.99	44.04	46.26	47.15	47.59	0.1429	0.1465	0.1754	21.19	7083.94	19.87	
Ibis	26	7	3.14	2.44	19.88	201.26	32.76	234.01	558.02	255.86	813.88	72.50	76.51	80.06	80.95	0.1405	0.1441	0.1724	18.96	8371.61	19.31	
Lark	30	7	2.92	2.92	20.46	201.38	46.99	248.37	559.71	367.03	926.75	90.29	96.52	101.41	102.75	0.1393	0.1428	0.1708	17.97	9100.00	18.93	
Brant	24	7	3.27	2.18	19.61	201.42	26.11	227.54	558.48	203.95	762.43	64.94	68.50	71.17	72.06	0.1411	0.1447	0.1731	19.53	7998.36	19.50	
Hawk	26	7	3.44	2.67	21.78	241.52	39.33	280.85	669.65	307.19	976.84	86.74	92.07	96.08	97.41	0.1171	0.1203	0.1440	18.96	8372.47	19.31	
Hen	30	7	3.20	3.20	22.42	241.71	56.40	298.11	671.81	440.54	1112.35	105.86	113.42	119.21	120.99	0.1161	0.1193	0.1427	17.97	9100.00	18.93	
Pelican	18	1	4.14	4.14	20.68	241.73	13.43	255.16	666.95	104.48	771.43	52.49	54.71	56.04	56.49	0.1183	0.1216	0.1455	21.20	7078.95	19.87	
Flicker	24	7	3.58	2.39	21.49	241.77	31.34	273.11	670.32	244.80	915.12	76.51	80.51	83.62	84.51	0.1175	0.1208	0.1446	19.53	7998.36	19.50	
Osprey	18	1	4.47	4.47	22.33	281.87	15.66	297.53	777.72	121.83	899.55	60.94	63.61	64.94	65.83	0.1014	0.1046	0.1252	21.20	7078.95	19.87	
Dove	26	7	3.72	2.89	23.54	281.97	45.93	327.91	781.80	358.79	1140.59	100.52	106.75	111.20	112.53	0.1003	0.1034	0.1237	18.96	8373.19	19.31	
Eagle	30	7	3.46	3.46	24.22	281.98	65.80	347.78	783.73	513.94	1297.67	123.65	132.11	138.78	141.00	0.0995	0.1026	0.1227	17.97	9100.00	18.93	

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	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total	GA2 or MA2	GA3 or MA3	GA4 or MA4	GA5 or MA5	DC at 20 °C	AC at 25 °C	AC at 75 °C				
Parakeet	24	7	3.87	2.58	23.21	282.07	36.54	318.61	782.07	285.42	1067.49	88.07	92.96	96.52	97.86	0.1007	0.1039	0.1243	19.53	7997.37	19.50	
Squab	26	7	3.87	3.01	24.53	306.38	49.89	356.27	849.47	389.70	1239.17	108.09	114.76	119.65	121.43	0.0923	0.0955	0.1143	18.96	8372.51	19.31	
Wood Duck	30	7	3.61	3.61	25.25	306.51	71.52	378.03	851.91	558.64	1410.55	128.55	140.56	147.67	149.90	0.0915	0.0947	0.1133	17.97	9100.00	18.93	
Teal	30	19	3.61	2.16	25.25	306.51	69.88	376.39	851.91	546.96	1398.86	133.44	142.34	149.01	151.23	0.0916	0.0948	0.1134	18.04	9047.88	18.96	
Peacock	24	7	4.03	2.69	24.20	306.66	39.78	346.44	850.25	310.70	1160.96	96.08	100.97	104.97	106.31	0.0927	0.0959	0.1148	19.53	7999.31	19.49	
Swift	36	1	3.38	3.38	23.63	322.18	8.95	331.13	888.92	69.63	958.55	61.38	62.27	63.16	63.61	0.0891	0.0922	0.1104	22.03	6700.00	19.97	
Scoter	30	7	3.70	3.70	25.89	322.25	75.19	397.44	895.65	587.33	1482.97	135.22	147.67	155.24	157.46	0.0871	0.0901	0.1078	17.97	9100.00	18.93	
Egret	30	19	3.70	2.22	25.89	322.25	73.54	395.79	895.65	575.57	1471.22	140.11	149.45	156.57	159.24	0.0871	0.0902	0.1079	18.03	9049.93	18.96	
Grosbeak	26	7	3.97	3.09	25.16	322.25	52.45	374.69	893.48	409.66	1303.13	112.09	119.21	124.10	125.88	0.0878	0.0908	0.1087	18.96	8371.54	19.31	
Rook	24	7	4.14	2.76	24.81	322.30	41.75	364.06	893.63	326.15	1219.77	100.52	106.31	110.31	111.64	0.0882	0.0913	0.1092	19.53	7997.44	19.50	
Kingbird	18	1	4.78	4.78	23.88	322.35	17.91	340.26	889.41	139.33	1028.73	69.83	72.50	74.28	75.17	0.0887	0.0918	0.1099	21.20	7078.95	19.87	
Gannet	26	7	4.07	3.16	25.75	337.68	54.98	392.65	936.25	429.43	1365.68	117.43	124.54	130.33	132.11	0.0837	0.0871	0.1042	18.96	8372.21	19.31	
Flamingo	24	7	4.23	2.82	25.40	337.93	43.78	381.71	936.95	341.97	1278.92	105.42	111.20	115.65	116.98	0.0841	0.0875	0.1047	19.53	7997.46	19.50	
Redwing	30	19	3.92	2.35	27.45	362.38	82.55	444.93	1007.19	646.10	1653.28	153.90	164.13	172.14	174.81	0.0775	0.0806	0.0964	18.04	9045.95	18.96	
Starling	26	7	4.21	3.28	26.69	362.59	59.02	421.61	1005.31	461.04	1466.35	126.32	133.88	139.67	141.89	0.0780	0.0811	0.0971	18.96	8371.93	19.31	
Stilt	24	7	4.39	2.92	26.32	362.69	46.99	409.68	1005.61	367.03	1372.65	113.42	119.65	124.10	125.88	0.0783	0.0815	0.0975	19.53	7997.49	19.50	
Condor	54	7	3.08	3.08	27.73	402.59	52.19	454.77	1116.22	407.64	1523.86	125.43	132.11	137.44	139.22	0.0706	0.0739	0.0884	19.53	7998.36	19.50	
Tern	45	7	3.38	2.25	27.01	402.72	27.84	430.57	1116.60	217.48	1334.08	98.30	101.86	104.53	105.42	0.0712	0.0745	0.0892	20.85	7257.04	19.81	
Coot	36	1	3.77	3.77	26.42	402.80	11.19	413.98	1111.35	87.05	1198.40	74.73	76.51	77.40	77.84	0.0713	0.0746	0.0893	22.03	6700.00	19.97	
Cuckoo	24	7	4.62	3.08	27.73	402.81	52.19	455.00	1116.84	407.64	1524.48	124.10	131.22	136.11	137.89	0.0705	0.0738	0.0883	19.53	7997.53	19.50	
Mallard	30	19	4.14	2.48	28.95	402.88	91.89	494.77	1119.76	719.23	1838.98	170.80	182.81	191.71	194.38	0.0697	0.0729	0.0872	18.04	9048.80	18.96	
Drake	26	7	4.44	3.45	19.25	402.99	65.60	468.60	1117.35	512.43	1629.78	140.11	149.01	155.24	157.46	0.0702	0.0734	0.0879	18.96	8371.97	19.31	
Ruddy	45	7	3.59	2.40	28.74	455.89	31.54	487.43	1264.00	246.37	1510.36	108.53	112.98	116.09	116.98	0.0629	0.0663	0.0794	20.85	7257.68	19.81	
Canary	54	7	3.28	3.28	29.51	456.03	59.11	515.14	1264.39	461.75	1726.14	141.89	149.90	155.68	157.46	0.0623	0.0657	0.0786	19.53	7998.36	19.50	
Cardinal	54	7	3.38	3.38	30.38	483.27	62.65	545.91	1339.92	489.33	1829.26	150.34	158.79	165.02	167.24	0.0588	0.0620	0.0742	19.53	7998.36	19.50	
Rail	45	7	3.70	2.47	29.59	483.37	33.44	516.81	1340.20	261.21	1601.42	115.20	119.65	123.21	124.10	0.0593	0.0625	0.0748	20.85	7257.66	19.81	
Catbird	36	1	4.14	4.14	28.95	483.45	13.43	496.88	1333.90	104.48	1438.38	88.07	90.29	91.63	92.07	0.0594	0.0626	0.0749	22.03	6700.00	19.97	
Ortolan	45	7	3.85	2.57	30.78	523.34	36.18	559.52	1451.02	282.62	1733.64	123.21	128.10	131.66	132.55	0.0548	0.0582	0.0697	20.85	7257.04	19.81	
Curlw	54	7	3.51	3.51	31.62	523.34	67.84	591.18	1451.02	529.91	1980.93	162.80	171.69	178.81	181.03	0.0543	0.0577	0.0691	19.53	7998.36	19.50	
Tanager	36	1	4.30	4.30	30.12	523.45	14.54	537.99	1444.25	113.12	1557.37	95.19	97.41	99.19	99.64	0.0548	0.0583	0.0698	22.03	6700.00	19.97	
Bluejay	45	7	4.00	2.66	31.97	564.18	39.03	603.21	1564.25	304.86	1869.11	132.55	137.89	141.89	143.23	0.0508	0.0546	0.0653	20.85	7257.61	19.81	
Finch	54	19	3.65	2.19	32.83	564.22	71.53	635.75	1572.00	559.87	2131.87	173.92	183.26	189.93	192.15	0.0506	0.0544	0.0650	19.59	7965.28	19.51	
Grackle	54	19	3.77	2.27	33.98	604.19	76.60	680.79	1683.37	599.52	2282.90	186.37	196.16	203.27	205.94	0.0473	0.0508	0.0607	19.59	7965.23	19.51	
Bunting	45	7	4.14	2.76	33.08	604.32	41.75	646.07	1675.55	326.15	2001.70	142.34	147.67	151.68	153.01	0.0474	0.0509	0.0610	20.85	7256.49	19.81	
Bittern	45	7	4.27	2.85	34.16	644.31	44.57	688.88	1786.42	348.15	2134.57	151.68	157.46	161.91	163.24	0.0445	0.0483	0.0578	20.85	7257.58	19.81	
Pheasant	54	19	3.90	2.34	35.09	644.70	81.66	726.36	1796.22	639.14	2435.36	193.93	204.61	212.17	214.84	0.0443	0.0481	0.0576	19.59	7963.91	19.51	

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	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total	GA2 or MA2	GA3 or MA3	GA4 or MA4	GA5 or MA5	DC at 20 °C	AC at 25 °C	AC at 75 °C				
Skylark	36	1	4.78	4.78	33.43	644.71	17.91	662.62	1778.81	139.33	1918.14	117.43	120.10	121.88	122.76	0.0445	0.0484	0.0579	22.03	6700.00	19.97	
Martin	54	19	4.02	2.41	36.16	684.78	86.70	771.48	1907.90	678.59	2586.49	205.94	217.06	225.51	228.18	0.0417	0.0453	0.0542	19.59	7963.28	19.51	
Dipper	45	7	4.40	2.93	35.21	684.78	47.32	732.10	1898.65	369.59	2268.24	161.02	167.24	172.14	173.47	0.0419	0.0455	0.0544	20.85	7256.53	19.81	
Bobolink	45	7	4.53	3.02	36.23	724.87	50.14	775.01	2009.79	391.67	2401.46	170.36	177.03	182.37	183.70	0.0396	0.0435	0.0521	20.85	7257.55	19.81	
Plover	54	19	4.14	2.48	37.22	725.18	91.89	817.08	2020.47	719.23	2739.69	218.40	229.96	238.86	241.97	0.0394	0.0433	0.0518	19.59	7964.51	19.51	
Parrot	54	19	4.25	2.55	38.22	764.91	96.85	861.76	2131.16	758.01	2889.17	229.96	242.42	251.76	254.87	0.0373	0.0417	0.0499	19.59	7963.32	19.51	
Nuthatch	45	7	4.65	3.10	37.22	765.26	52.88	818.14	2121.77	413.04	2534.81	178.36	185.04	190.37	192.15	0.0375	0.0418	0.0500	20.85	7256.56	19.81	
Falcon	54	19	4.36	2.62	39.23	805.70	102.13	907.83	2244.80	799.37	3044.17	242.42	255.76	265.55	268.66	0.0355	0.0396	0.0473	19.59	7965.05	19.51	
Lapwing	45	7	4.78	3.18	38.20	805.88	55.69	861.57	2234.42	434.97	2669.38	187.71	195.27	200.60	202.38	0.0356	0.0397	0.0475	20.85	7256.57	19.81	
Chukar	84	19	3.70	2.22	40.69	902.29	73.54	975.83	2513.92	575.57	3089.49	226.85	236.19	243.31	245.53	0.0319	0.0361	0.0432	20.55	7415.34	19.75	
Bluebird	84	19	4.07	2.44	44.76	1092.32	88.91	1181.23	3043.36	695.86	3739.22	268.21	279.33	288.23	290.90	0.0263	0.0316	0.0378	20.55	7413.97	19.75	
Kiwi	72	7	4.41	2.94	44.07	1098.19	47.48	1145.67	3059.71	370.87	3430.58	221.51	228.18	232.63	234.41	0.0263	0.0316	0.0378	21.55	6913.36	19.92	
Thrasher	76	19	4.43	2.07	45.78	1171.25	63.79	1235.04	3263.29	499.26	3762.55	252.20	260.21	266.44	268.66	0.0247	0.0296	0.0354	21.23	7064.41	19.87	

# Aluminium Conductor Steel Reinforced (ACSR/GA2)

ACSR/RW (GA2 (BS EN 50182))

Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (kN)	Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
Mole	6	1	1.50	1.50	4.50	10.60	1.77	12.37	29.06	13.75	42.81	4.14	2.6372	2.6901	3.2188	18.90	8400.00	19.29
Squirrel	6	1	2.11	2.11	6.33	20.98	3.50	24.48	57.50	27.20	84.70	7.87	1.3328	1.3596	1.6267	18.90	8400.00	19.29
Gopher	6	1	2.36	2.36	7.08	26.25	4.37	30.62	71.93	34.03	105.96	9.58	1.0654	1.0869	1.3004	18.90	8400.00	19.29
Weasel	6	1	2.59	2.59	7.77	31.61	5.27	36.88	86.63	40.99	127.62	11.38	0.8846	0.9024	1.0798	18.90	8400.00	19.29
Fox	6	1	2.79	2.79	8.37	36.68	6.11	42.79	100.53	47.56	148.09	13.21	0.7623	0.7778	0.9305	18.90	8400.00	19.29
Ferret	6	1	3.00	3.00	9.00	42.41	7.07	49.48	116.23	54.99	171.22	15.27	0.6593	0.6727	0.8049	18.90	8400.00	19.29
Rabbit	6	1	3.35	3.35	10.10	52.88	8.81	61.70	144.93	68.57	213.50	18.42	0.5287	0.5397	0.6455	18.90	8400.00	19.29
Mink	6	1	3.66	3.66	11.00	63.12	10.52	73.64	172.99	81.85	254.84	21.67	0.4430	0.4521	0.5410	18.90	8400.00	19.29
Skunk	12	7	2.59	2.59	13.00	63.22	36.88	100.10	174.59	288.41	463.00	52.79	0.4201	0.4287	0.5120	15.41	11715.79	17.97
Horse	12	7	2.79	2.79	12.00	73.36	42.79	116.16	202.60	334.67	537.27	61.26	0.3620	0.3697	0.4412	15.41	11715.79	17.97
Beaver	6	1	3.99	3.99	14.00	75.02	12.50	87.52	205.60	97.28	302.87	25.76	0.3727	0.3807	0.4552	18.90	8400.00	19.29
Racoon	6	1	4.09	4.09	12.30	78.83	13.14	91.96	216.03	102.21	318.24	27.06	0.3547	0.3623	0.4332	18.90	8400.00	19.29
Otter	6	1	4.22	4.22	12.70	83.92	13.99	97.90	229.98	108.81	338.80	28.81	0.3332	0.3403	0.4072	18.90	8400.00	19.29
Cat	6	1	4.50	4.50	13.50	95.42	15.90	111.33	261.51	123.73	385.25	32.76	0.2930	0.2995	0.3581	18.90	8400.00	19.29
Hare	6	1	4.72	4.72	14.20	104.98	17.50	122.48	287.71	136.13	423.83	36.04	0.2663	0.2723	0.3255	18.90	8400.00	19.29
Dog	6	7	4.72	1.57	14.20	104.98	122.48	227.46	288.05	957.84	1245.89	32.65	0.2329	0.2383	0.2835	13.85	14215.38	18.73
Hyena	7	7	4.39	1.93	14.57	105.95	20.48	126.43	290.90	160.00	450.90	40.91	0.2622	0.2680	0.3204	19.80	75000.00	17.08
Tiger	30	7	2.36	2.36	15.90	131.23	30.62	161.85	362.72	239.46	602.18	57.87	0.2128	0.2178	0.2602	17.97	9081.08	18.93
Cougar	18	1	3.05	3.05	15.30	131.51	7.31	138.81	361.93	56.84	418.77	29.74	0.2170	0.2221	0.2656	21.20	7073.68	19.87
Coyote	26	7	2.54	1.91	16.50	131.74	35.47	167.21	363.86	277.38	641.24	45.86	0.2107	0.2157	0.2576	17.56	9418.18	18.76
Wolf	30	7	2.59	2.59	18.10	158.05	36.88	194.93	436.87	288.41	725.28	68.91	0.1767	0.1812	0.2163	17.97	9081.08	18.93
Dingo	18	1	3.35	3.35	16.80	158.65	8.81	167.46	436.63	68.57	505.21	35.87	0.1799	0.1845	0.2204	21.20	7073.68	19.87
Lynx	30	7	2.79	2.79	19.50	183.40	42.79	226.20	506.94	334.67	841.61	79.97	0.1523	0.1565	0.1867	17.97	9081.08	18.93
Caracal	18	1	3.61	3.61	18.10	184.23	10.24	194.47	507.04	79.63	586.67	40.74	0.1549	0.1592	0.1902	21.20	7073.68	19.87
Jaguar	18	1	3.86	3.86	9.00	210.63	11.70	222.33	579.70	91.04	670.74	46.57	0.1355	0.1397	0.1667	21.20	7073.68	19.87
Panther	30	7	3.00	3.00	19.30	212.05	49.48	261.53	586.13	386.95	973.07	92.46	0.1317	0.1358	0.1619	17.97	9081.08	18.93
Lion	30	7	3.18	3.18	22.30	238.26	55.59	293.85	658.57	434.77	1093.35	100.47	0.1172	0.1213	0.1441	17.97	9081.08	18.93
Bear	30	7	3.35	3.35	23.50	264.42	61.70	326.11	730.87	482.50	1213.37	111.50	0.1056	0.1093	0.1302	17.97	9081.08	18.93
Goat	30	7	3.71	3.71	26.00	324.30	75.67	399.97	896.39	591.77	1488.16	135.13	0.0861	0.0901	0.1066	17.97	9081.08	18.93
Antelope	54	7	2.97	2.97	27.90	374.10	48.49	422.59	1034.54	379.25	1413.79	118.88	0.0758	0.0799	0.0944	19.53	7986.89	19.50
Sheep	30	7	3.99	3.99	26.70	375.10	87.52	462.62	1036.80	684.47	1721.27	156.30	0.0745	0.0785	0.0926	17.97	9081.08	18.93
Bison	54	7	3.00	3.00	27.00	381.69	49.48	431.17	1055.55	386.95	1442.49	121.30	0.0743	0.0783	0.0925	19.53	7986.89	19.50
Zebra	54	7	3.18	3.18	29.90	428.87	55.59	484.46	1186.01	434.77	1620.78	131.92	0.0661	0.0703	0.0828	19.53	7986.89	19.50
Deer	30	7	4.27	4.27	28.60	429.59	100.24	529.83	1187.42	783.90	1971.33	179.00	0.0650	0.0691	0.0814	17.97	9081.08	18.93
Camel	54	7	3.35	3.35	31.50	475.95	61.70	537.65	1316.21	482.50	1798.71	146.40	0.0596	0.0640	0.0752	19.53	7986.89	19.50
Elk	30	7	4.50	4.50	30.20	477.12	111.33	588.44	1318.79	870.63	2189.42	198.80	0.0585	0.0628	0.0738	17.97	9081.08	18.93
Moose	54	7	3.53	3.53	31.80	528.47	68.51	596.98	1461.45	535.74	1997.19	159.92	0.0537	0.0583	0.0683	19.53	7986.89	19.50

# Aluminium Conductor Steel Reinforced (ACSR/GA2)

ACSR/RW (GA2 (DIN 48204))

Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (kN)	Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
16/2.5	6	1	1.80	1.80	5.40	15.27	2.54	17.81	41.85	19.85	61.70	5.81	1.8793	1.9172	2.2959	18.90	8414.29	19.29
25/4	6	1	2.25	2.25	6.80	23.86	3.98	27.83	65.39	31.01	96.40	9.02	1.2028	1.2272	1.4696	18.90	8414.29	19.29
35/6	6	1	2.70	2.70	8.10	34.35	5.73	40.08	94.16	44.66	138.82	12.70	0.8353	0.8522	1.0206	18.90	8414.29	19.29
44/32	14	7	2.00	2.40	11.20	43.98	31.67	75.65	121.46	248.13	369.59	45.46	0.6573	0.6708	0.8032	14.88	12495.35	17.98
50/8	6	1	3.20	3.20	9.60	48.25	8.04	56.30	132.26	62.73	194.99	17.18	0.5946	0.6068	0.7266	18.90	8414.29	19.29
50/30	12	7	2.33	2.33	11.70	51.16	29.85	81.01	141.14	233.86	375.00	44.28	0.5644	0.5760	0.6897	15.41	11752.63	17.97
70/12	26	7	1.85	1.44	11.70	69.89	11.40	81.29	192.76	89.33	282.08	26.31	0.413	0.4216	0.5049	18.95	8375.60	19.31
95/15	26	7	2.15	1.67	13.60	94.39	15.33	109.72	260.34	120.14	380.48	35.17	0.3058	0.3126	0.3744	18.96	8368.11	19.31
95/55	12	7	3.20	3.20	16.00	96.51	56.30	152.80	266.21	441.11	707.33	80.20	0.2992	0.3059	0.3663	15.41	11752.63	17.97
105/75	14	19	3.10	2.25	17.50	105.66	75.54	181.21	291.81	593.89	885.70	106.69	0.2736	0.2797	0.3350	14.90	12469.94	17.97
120/20	26	7	2.44	1.90	15.50	121.57	19.85	141.42	335.31	155.51	490.82	44.94	0.2374	0.2430	0.2910	18.95	8377.02	19.31
120/70	12	7	3.60	3.60	18.00	122.14	71.25	193.39	336.93	558.28	895.21	98.16	0.2364	0.2420	0.2898	15.41	11752.63	17.97
125/30	30	7	2.33	2.33	16.30	127.91	29.85	157.76	353.07	233.86	586.94	57.86	0.2259	0.2312	0.2769	17.97	9100.00	18.93
150/25	26	7	2.70	2.10	17.10	148.86	24.24	173.10	410.58	189.97	600.55	54.37	0.1939	0.1988	0.2381	18.96	8372.85	19.31
170/40	30	7	2.70	2.70	18.90	171.76	40.08	211.84	474.11	314.04	788.15	77.01	0.1682	0.1725	0.2065	17.97	9100.00	18.93
185/30	26	7	3.00	2.33	19.00	183.78	29.85	213.62	506.89	233.86	740.75	66.28	0.1571	0.1615	0.1934	18.96	8367.75	19.31
210/35	26	7	3.20	2.49	20.30	209.10	34.09	243.18	576.73	267.08	843.81	74.94	0.1380	0.1418	0.1699	18.95	8374.44	19.31
210/50	30	7	3.00	3.00	21.00	212.05	49.48	261.53	585.33	387.70	973.02	92.25	0.1363	0.1405	0.1683	17.97	9100.00	18.93
230/30	24	7	3.50	2.33	21.00	230.90	29.85	260.75	636.42	233.86	870.28	73.09	0.1249	0.1288	0.1542	19.54	7994.07	19.50
240/40	26	7	3.45	2.68	21.80	243.05	39.49	282.53	670.36	309.40	979.76	86.46	0.1188	0.1225	0.1467	18.96	8368.42	19.31
265/35	24	7	3.74	2.49	22.40	263.65	34.09	297.74	726.69	267.08	993.78	82.94	0.1094	0.1132	0.1356	19.54	7994.34	19.50
300/50	26	7	3.86	3.00	24.50	304.25	49.48	353.72	839.16	387.70	1226.86	105.09	0.0949	0.0987	0.1182	18.96	8370.21	19.31
305/40	54	7	2.68	2.68	24.10	304.61	39.49	344.09	841.17	309.40	1150.57	99.30	0.0949	0.0987	0.1182	19.53	7998.36	19.50
340/30	48	7	3.00	2.33	25.00	339.28	29.85	369.13	936.29	233.86	1170.15	92.56	0.0851	0.0891	0.1066	20.39	7496.66	19.72
380/50	54	7	3.00	3.00	27.00	381.69	49.48	431.17	1054.04	387.70	1441.74	120.91	0.0757	0.0798	0.0956	19.53	7998.36	19.50
385/35	48	7	3.20	2.49	26.70	386.03	34.09	420.11	1065.29	267.08	1332.38	104.31	0.0748	0.0788	0.0944	20.39	7500.80	19.72
435/55	54	7	3.20	3.20	28.80	434.28	56.30	490.58	1199.27	441.11	1640.38	136.27	0.0666	0.0708	0.0848	19.53	7998.36	19.50
450/40	48	7	3.45	2.68	28.70	448.70	39.49	488.19	1238.24	309.40	1547.64	120.19	0.0644	0.0685	0.0820	20.39	7497.07	19.72
490/65	54	7	3.40	3.40	30.60	490.26	63.55	553.82	1353.86	497.98	1851.84	152.85	0.059	0.0633	0.0759	19.53	7998.36	19.50
495/35	45	7	3.74	2.49	29.90	494.35	34.09	528.43	1363.81	267.08	1630.89	120.31	0.0584	0.0627	0.0751	20.85	7254.65	19.81
510/45	48	7	3.68	2.87	30.70	510.52	45.28	555.80	1408.85	354.83	1763.67	134.33	0.0566	0.0608	0.0728	20.38	7505.81	19.71
550/70	54	7	3.60	3.60	32.40	549.64	71.25	620.89	1517.82	558.28	2076.11	167.42	0.0526	0.0571	0.0684	19.53	7998.36	19.50
560/50	48	7	3.86	3.00	32.20	561.69	49.48	611.16	1550.04	387.70	1937.74	146.28	0.0514	0.0558	0.0668	20.39	7498.18	19.72
570/40	45	7	4.02	2.68	32.20	571.14	39.49	610.62	1575.66	309.40	1885.06	137.98	0.0506	0.0549	0.0658	20.85	7257.04	19.81
650/45	45	7	4.30	2.87	34.40	653.47	45.28	698.75	1802.80	354.83	2157.62	155.52	0.0442	0.0493	0.0591	20.84	7259.13	19.81
680/85	54	19	4.00	2.40	36.00	678.56	85.95	764.52	1873.85	675.71	2549.57	209.99	0.0426	0.0475	0.0569	19.59	7963.91	19.51
1045/45	72	7	4.30	2.87	43.00	1045.55	45.28	1090.84	2165.47	966.28	3131.76	217.87	0.0277	0.0339	0.0406	21.55	6914.38	19.92

## Aluminium Conductor Steel Reinforced (ACSR/AW2)

ACSR/RW (AW2 (ASTM B549))

Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (kN)	Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
Gannet	26	7	4.07	3.16	25.76	338.25	54.90	393.15	937.84	363.22	1301.06	116.00	0.0812	0.0849	0.1010	19.90	7726.09	18.41
Starling	26	7	4.21	3.28	26.68	361.92	59.15	421.07	1003.47	391.33	1394.80	122.00	0.0758	0.0799	0.0944	19.88	7734.58	18.40
Redwing	30	19	3.92	2.35	27.43	362.05	82.41	444.46	1003.83	546.32	1550.16	149.00	0.0743	0.0783	0.0924	19.11	8193.60	17.90
Stilt	24	7	4.39	2.92	26.32	363.26	46.87	410.13	1007.18	310.14	1317.32	110.00	0.0764	0.0805	0.0951	20.37	7467.26	18.71
Coot	36	1	3.77	3.77	26.39	401.85	11.16	413.01	1108.74	73.56	1182.30	74.00	0.0711	0.0749	0.0891	22.29	6576.03	19.73
Condor	54	7	3.08	3.08	27.72	402.32	52.15	454.47	1115.48	345.06	1460.54	124.00	0.0690	0.0727	0.0864	20.36	7471.98	18.70
Cuckoo	24	7	4.62	3.08	27.72	402.32	52.15	454.47	1115.48	345.06	1460.54	122.00	0.0690	0.0727	0.0864	20.36	7471.98	18.70
Drake	26	7	4.44	3.45	38.76	402.55	65.44	467.98	1116.11	432.94	1549.06	136.00	0.0682	0.0725	0.0854	19.89	7728.03	18.41
Tern	45	7	3.38	2.25	27.03	403.76	27.83	431.59	1119.47	184.14	1303.62	96.00	0.0701	0.0739	0.0878	21.41	6958.60	19.30
Mallard	30	19	4.14	2.48	28.96	403.83	91.78	495.61	1119.67	608.44	1728.11	165.00	0.0666	0.0708	0.0833	19.12	8191.25	17.90
Ruddy	45	7	3.59	2.40	28.74	455.49	31.67	487.16	1262.90	209.52	1472.42	107.00	0.0621	0.0660	0.0784	21.40	6963.87	19.29
Canary	54	7	3.28	3.28	29.52	456.27	59.15	515.41	1265.06	391.33	1656.38	138.00	0.0608	0.0653	0.0767	20.36	7471.98	18.70
Rail	45	7	3.70	2.47	29.61	483.83	33.54	517.37	1341.48	221.92	1563.40	113.00	0.0585	0.0628	0.0738	21.40	6962.10	19.29
Cardinal	54	7	3.38	3.38	30.42	484.51	62.81	547.32	1343.37	415.55	1758.92	146.00	0.0573	0.0615	0.0728	20.36	7471.98	18.70
Catbird	36	1	4.14	4.14	28.98	484.60	13.46	498.06	1337.05	88.71	1425.76	87.00	0.0589	0.0633	0.0744	22.29	6576.03	19.73
Curlew	54	7	3.51	3.51	31.59	522.50	67.73	590.23	1448.69	448.13	1896.83	158.00	0.0531	0.0577	0.0675	20.36	7471.98	18.70
Tanager	36	1	4.30	4.30	30.10	522.78	14.52	537.30	1442.39	95.70	1538.09	94.00	0.0546	0.0593	0.0695	22.29	6576.03	19.73
Ortolan	45	7	3.85	2.57	30.81	523.85	36.31	560.17	1452.45	240.25	1692.70	121.00	0.0540	0.0587	0.0688	21.40	6962.03	19.29
Finch	54	19	3.65	2.19	32.85	565.01	71.57	636.58	1570.38	474.46	2044.85	167.00	0.0493	0.0542	0.0633	20.41	7448.21	18.73
Bluejay	45	7	4.00	2.66	31.98	565.47	38.90	604.37	1567.84	257.37	1825.21	130.00	0.0501	0.0544	0.0643	21.41	6957.34	19.30
Grackle	54	19	3.77	2.27	33.97	602.77	76.89	679.66	1675.34	509.76	2185.10	179.00	0.0462	0.0508	0.0593	20.39	7455.42	18.72
Bunting	45	7	4.14	2.76	33.12	605.75	41.88	647.62	1679.51	277.08	1956.59	139.00	0.0467	0.0514	0.0601	21.40	6960.42	19.29
Bittern	45	7	4.27	2.85	34.17	644.38	44.65	689.04	1786.64	295.45	2082.09	149.00	0.0439	0.0490	0.0571	21.40	6961.87	19.29
Pheasant	54	19	3.90	2.34	35.10	645.06	81.71	726.77	1792.87	541.68	2334.56	189.00	0.0432	0.0482	0.0561	20.41	7448.21	18.73
Skylark	36	1	4.78	4.78	33.46	646.00	17.94	663.95	1782.39	118.25	1900.64	114.00	0.0442	0.0493	0.0575	22.29	6576.03	19.73
Dipper	45	7	4.40	2.93	35.19	684.22	47.20	731.42	1897.08	312.27	2209.35	158.00	0.0414	0.0462	0.0545	21.41	6959.02	19.30
Martin	54	19	4.02	2.41	36.17	685.37	86.67	772.04	1904.90	574.58	2479.48	201.00	0.0406	0.0461	0.0535	20.41	7446.52	18.73
Bobolink	45	7	4.53	3.02	36.24	725.25	50.14	775.39	2010.84	331.75	2342.59	167.00	0.0390	0.0442	0.0514	21.40	6960.42	19.29
Plover	54	19	4.14	2.48	37.24	726.89	91.78	818.67	2020.32	608.44	2628.76	212.00	0.0383	0.0434	0.0504	20.41	7444.93	18.73
Nuthatch	45	7	4.65	3.10	37.20	764.18	52.83	817.01	2118.78	349.56	2468.34	177.00	0.0370	0.0427	0.0495	21.40	6960.42	19.29
Parrot	54	19	4.25	2.55	38.25	766.04	97.03	863.07	2129.11	643.27	2772.38	224.00	0.0363	0.0419	0.0485	20.41	7448.21	18.73
Falcon	54	19	4.36	2.62	39.26	806.20	102.43	908.63	2240.75	679.07	2919.82	236.00	0.0345	0.0398	0.0461	20.40	7451.32	18.72
Lapwing	45	7	4.78	3.18	38.22	807.51	55.59	863.10	2238.91	367.83	2606.74	186.00	0.0351	0.0404	0.0468	21.41	6957.84	19.30
Chukar	84	19	3.70	2.22	40.70	903.15	73.54	976.69	2516.31	487.55	3003.86	220.00	0.0314	0.0376	0.0426	21.17	7069.01	19.17
Bluebird	84	19	4.07	2.44	44.76	1092.81	88.84	1181.65	3044.74	588.97	3633.71	262.00	0.0259	0.0325	0.0372	21.17	7067.85	19.17
Kiwi	72	7	4.41	2.94	44.10	1099.73	47.52	1147.25	3064.02	314.40	3378.42	218.00	0.0261	0.0327	0.0374	21.94	6723.02	19.56
Thrasher	76	19	4.43	2.07	45.79	1171.38	63.94	1235.32	3263.64	423.89	3687.53	246.00	0.0244	0.0313	0.0358	21.70	6828.62	19.44

# Aluminium Conductor Steel Reinforced (ACSR/AW2)

ACSR/RW (AW2 (ASTM B549))																		
Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (kN)	Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
Leghorn	12	7	2.69	2.69	13.45	68.20	39.78	107.98	189.08	263.21	452.29	58.00	0.3545	0.3619	0.4319	16.71	10062.68	16.57
Guinea	12	7	2.92	2.92	14.60	80.36	46.87	127.23	222.80	310.14	532.94	68.00	0.3008	0.3074	0.3668	16.71	10062.68	16.57
Pigeon	6	1	4.25	4.25	12.75	85.12	14.19	99.30	233.69	93.48	327.17	28.00	0.3191	0.3259	0.3899	19.84	7759.00	18.37
Dotterel	12	7	3.08	3.08	15.40	89.40	52.15	141.56	247.89	345.06	592.95	75.00	0.2704	0.2763	0.3296	16.71	10062.68	16.57
Dorking	12	7	3.20	3.20	16.00	96.51	56.30	152.80	267.58	372.47	640.05	81.00	0.2505	0.2560	0.3057	16.71	10062.68	16.57
Brahma	16	19	2.86	2.48	18.12	102.78	91.78	194.56	286.37	607.23	893.60	121.00	0.2170	0.2220	0.2644	15.71	11117.59	16.65
Cochin	12	7	3.37	3.37	16.85	107.03	62.44	169.47	296.76	413.10	709.86	88.00	0.2258	0.2311	0.2756	16.71	10062.68	16.57
Penguin	6	1	4.77	4.77	14.31	107.22	17.87	125.09	294.37	117.76	412.13	34.00	0.2533	0.2589	0.3098	19.84	7759.00	18.37
Partridge	26	7	2.57	2.00	16.28	134.87	21.99	156.86	373.95	145.50	519.44	48.00	0.2035	0.2083	0.2492	19.89	7731.77	18.40
Waxwing	18	1	3.09	3.09	15.45	134.98	7.50	142.48	372.42	49.42	421.84	30.00	0.2096	0.2146	0.2565	21.68	6837.53	19.43
Ostrich	26	7	2.73	2.12	17.28	152.19	24.71	176.89	421.96	163.48	585.44	54.00	0.1804	0.1850	0.2209	19.90	7726.54	18.41
Merlin	18	1	3.47	3.47	17.35	170.22	9.46	179.68	469.65	62.32	531.97	38.00	0.1662	0.1705	0.2037	21.68	6837.53	19.43
Oriole	30	7	2.69	2.69	18.83	170.49	39.78	210.27	473.86	263.21	737.07	74.00	0.1578	0.1622	0.1935	19.05	8232.19	17.86
Linnet	26	7	2.89	2.25	18.31	170.55	27.83	198.38	472.87	184.14	657.01	60.00	0.1609	0.1654	0.1974	19.88	7732.84	18.40
Lark	30	7	2.92	2.92	20.44	200.89	46.87	247.77	558.36	310.14	868.50	87.00	0.1339	0.1380	0.1646	19.05	8232.19	17.86
Chickadee	18	1	3.77	3.77	18.85	200.92	11.16	212.09	554.37	73.56	627.93	44.00	0.1408	0.1447	0.1729	21.68	6837.53	19.43
Ibis	26	7	3.14	2.44	19.88	201.33	32.73	234.06	558.21	216.56	774.77	70.00	0.1364	0.1406	0.1677	19.89	7728.17	18.41
Brant	24	7	3.27	2.18	19.62	201.55	26.13	227.68	558.82	172.87	731.69	63.00	0.1377	0.1419	0.1689	20.36	7471.98	18.70
Hen	30	7	3.20	3.20	22.40	241.27	56.30	297.56	670.58	372.47	1043.05	104.00	0.1115	0.1154	0.1375	19.05	8232.19	17.86
Flicker	24	7	3.58	2.39	21.49	241.58	31.40	272.98	669.80	207.77	877.57	74.00	0.1148	0.1189	0.1417	20.36	7474.88	18.70
Hawk	26	7	3.44	2.68	21.80	241.64	39.49	281.13	669.97	261.25	931.23	84.00	0.1136	0.1176	0.1401	19.88	7734.49	18.40
Pelican	18	1	4.14	4.14	20.70	242.30	13.46	255.76	668.53	88.71	757.23	51.00	0.1168	0.1209	0.1437	21.68	6837.53	19.43
Eagle	30	7	3.46	3.46	24.22	282.07	65.82	347.88	783.97	435.46	1219.43	119.00	0.0954	0.0992	0.1181	19.05	8232.19	17.86
Parakeet	24	7	3.87	2.58	23.22	282.30	36.59	318.89	782.71	242.12	1024.83	86.00	0.0983	0.1022	0.1213	20.36	7471.98	18.70
Osprey	18	1	4.47	4.47	22.35	282.46	15.69	298.16	779.35	103.41	882.76	59.00	0.1002	0.1042	0.1236	21.68	6837.53	19.43
Dove	26	7	3.72	2.89	23.55	282.58	45.92	328.49	783.48	303.80	1087.28	97.00	0.0972	0.1011	0.1203	19.89	7727.57	18.41
Squab	26	7	3.87	3.01	24.51	305.82	49.81	355.63	847.94	329.55	1177.49	105.00	0.0898	0.0934	0.1111	19.89	7730.40	18.40
Peacock	24	7	4.03	2.69	24.19	306.12	39.78	345.91	848.77	263.21	1111.98	93.00	0.0906	0.0943	0.1123	20.36	7474.56	18.70
Teal	30	19	3.61	2.16	25.24	307.05	69.62	376.67	851.34	461.55	1312.89	127.00	0.0876	0.0917	0.1084	19.12	8187.67	17.90
Wood	30	7	3.61	3.61	25.27	307.05	71.65	378.70	853.42	474.03	1327.45	126.00	0.0876	0.0917	0.1084	19.05	8232.19	17.86
Gosbeak	26	7	3.97	3.09	25.15	321.83	52.49	374.33	892.32	347.31	1239.63	110.00	0.0853	0.0892	0.1056	19.89	7732.17	18.40
Egret	30	19	3.70	2.22	25.90	322.55	73.54	396.10	894.32	487.55	1381.87	133.00	0.0834	0.0872	0.1037	19.11	8196.22	17.89
Sooter	30	7	3.70	3.70	25.90	322.55	75.26	397.82	896.50	497.96	1394.46	130.00	0.0834	0.0873	0.1037	19.05	8232.19	17.86
Kingbird	18	1	4.78	4.78	23.90	323.00	17.94	340.95	891.20	118.25	1009.45	67.00	0.0876	0.0917	0.1086	21.68	6837.53	19.43
Swift	36	1	3.38	3.38	23.66	323.01	8.97	331.98	891.21	59.13	950.34	61.00	0.0884	0.0920	0.1096	22.29	6576.03	19.73
Rook	24	7	4.14	7.00	37.56	323.06	269.38	592.45	895.74	1782.34	2678.08	98.00	0.0699	0.0736	0.0872	15.86	10943.81	16.58
Flamingo	24	7	4.23	2.82	25.38	337.26	43.72	380.98	935.10	289.26	1224.37	103.00	0.0823	0.0861	0.1024	20.36	7471.98	18.70

## Aluminium Conductor Steel Reinforced (ACSR/AW2)

ACSR/RW (AW2 (ASTM B549))

Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (kN)	Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
Swanate	7	1	1.96	2.61	6.53	21.12	5.35	26.47	57.99	35.26	93.24	10.00	1.2512	1.2762	1.5262	18.85	8364.25	17.72
Swan	6	1	2.12	2.12	6.36	21.18	3.53	24.71	58.15	23.26	81.41	8.00	1.2823	1.3081	1.5649	19.84	7759.00	18.37
Swallow	6	1	2.38	2.38	7.14	26.69	4.45	31.14	73.29	29.32	102.60	10.00	1.0174	1.0380	1.2418	19.84	7759.00	18.37
Sparrow	6	1	2.67	2.67	8.01	33.59	5.60	39.19	92.23	36.90	129.13	12.00	0.8084	0.8247	0.9867	19.84	7759.00	18.37
Grouse	8	1	2.54	4.24	9.32	40.54	14.12	54.65	111.84	93.05	204.89	22.00	0.6359	0.6488	0.7755	18.04	8938.37	17.20
Robin	6	1	3.00	3.00	9.00	42.41	7.07	49.48	116.44	46.58	163.02	15.00	0.6404	0.6534	0.7817	19.84	7759.00	18.37
Petrel	12	7	2.34	2.34	11.70	51.60	30.10	81.71	143.08	199.17	342.25	44.00	0.4684	0.4780	0.5706	16.71	10062.68	16.57
Raven	6	1	3.37	3.37	10.11	53.52	8.92	62.44	146.93	58.78	205.71	19.00	0.5075	0.5180	0.6195	19.84	7759.00	18.37
Minorca	12	7	2.44	2.44	12.20	56.11	32.73	88.84	155.57	216.56	372.13	48.00	0.4308	0.4396	0.5249	16.71	10062.68	16.57
Quail	6	1	3.78	3.78	11.34	67.33	11.22	78.55	184.86	73.95	258.81	23.00	0.4033	0.4119	0.4926	19.84	7759.00	18.37



# Aluminium Conductor Steel Reinforced (ACSR/AW2)

ACSR/RW (AW2 (BS EN 50182))

Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (kN)	Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
Mole	6	1	1.50	1.50	4.50	10.60	1.77	12.37	29.06	11.65	40.70	3.98	2.5587	2.6097	3.1194	19.96	7759.00	18.26
Squirrel	6	1	2.11	2.11	6.33	20.98	3.50	24.48	57.50	23.04	80.54	7.57	1.2931	1.3189	1.5765	19.96	7759.00	18.26
Gopher	6	1	2.36	2.36	7.08	26.25	4.37	30.62	71.93	28.83	100.75	9.35	1.0337	1.0544	1.2603	19.96	7759.00	18.26
Weasel	6	1	2.59	2.59	7.77	31.61	5.27	36.88	86.63	34.72	121.35	11.11	0.8582	0.8754	1.0464	19.96	7759.00	18.26
Fox	6	1	2.79	2.79	8.37	36.68	6.11	42.79	100.53	40.29	140.81	12.89	0.7396	0.7546	0.9018	19.96	7759.00	18.26
Ferret	6	1	3.00	3.00	9.00	42.41	7.07	49.48	116.23	46.58	162.81	14.91	0.6397	0.6526	0.7801	19.96	7759.00	18.26
Rabbit	6	1	3.35	3.35	10.10	52.88	8.81	61.70	144.93	58.08	203.01	18.17	0.5130	0.5236	0.6256	19.96	7759.00	18.26
Mink	6	1	3.66	3.66	11.00	63.12	10.52	73.64	172.99	69.33	242.32	20.59	0.4298	0.4386	0.5243	19.96	7759.00	18.26
Skunk	12	7	2.59	2.59	13.00	63.22	36.88	100.10	174.59	244.29	418.89	52.25	0.3814	0.3893	0.4633	16.95	10062.68	16.33
Horse	12	7	2.79	2.79	14.00	73.36	42.79	116.16	202.60	283.48	486.08	60.63	0.3287	0.3355	0.3995	16.95	10062.68	16.33
Beaver	6	1	3.99	3.99	12.00	75.02	12.50	87.52	205.60	82.40	287.99	24.47	0.3616	0.3693	0.4412	19.96	7759.00	18.26
Raccoon	6	1	4.09	4.09	12.30	78.83	13.14	91.96	216.03	86.58	302.61	25.71	0.3442	0.3515	0.4199	19.96	7759.00	18.26
Otter	6	1	4.22	4.22	12.70	83.92	13.99	97.90	229.98	92.17	322.15	28.43	0.3233	0.3301	0.3946	19.96	7759.00	18.26
Cat	6	1	4.50	4.50	13.50	95.42	15.90	111.33	261.51	104.81	366.32	30.07	0.2843	0.2906	0.3470	19.96	7759.00	18.26
Hare	6	1	4.72	4.72	14.20	104.98	17.50	122.48	287.71	115.30	403.01	32.58	0.2584	0.2641	0.3157	19.96	7759.00	18.26
Dog	6	7	4.72	1.57	14.20	104.98	122.48	227.46	288.05	811.33	1099.38	155.58	0.1962	0.2010	0.2379	15.46	11799.31	16.78
Hyena	7	7	4.39	1.93	14.57	105.95	20.48	126.43	289.54	135.66	425.20	39.45	0.2533	0.2589	0.3097	19.63	7954.00	17.23
Tiger	30	7	2.36	2.36	16.50	131.23	30.62	161.85	362.72	202.83	565.55	56.72	0.2041	0.2089	0.2495	19.20	8232.19	17.72
Cougar	18	1	3.05	3.05	15.30	131.51	7.31	138.81	361.93	48.15	410.08	28.94	0.2148	0.2198	0.2628	21.73	6837.53	19.39
Coyote	26	7	2.54	1.91	15.90	131.74	35.47	167.21	363.86	234.95	598.81	61.71	0.2009	0.2056	0.2455	18.86	8466.39	17.47
Wolf	30	7	2.59	2.59	18.10	158.05	36.88	194.93	436.87	244.29	681.16	67.57	0.1695	0.1737	0.2071	19.20	8232.19	17.72
Dingo	18	1	3.35	3.35	16.80	158.65	8.81	167.46	436.63	58.08	494.72	34.75	0.1780	0.1826	0.2181	21.73	6837.53	19.39
Lynx	30	7	2.79	2.79	19.50	183.40	42.79	226.20	506.94	283.48	790.42	78.40	0.1460	0.1501	0.1788	19.20	8232.19	17.72
Caracal	18	1	3.61	3.61	18.10	184.23	10.24	194.47	507.04	67.45	574.49	39.09	0.1533	0.1576	0.1881	21.73	6837.53	19.39
Jaguar	18	1	3.86	3.86	19.30	210.63	11.70	222.33	579.70	77.11	656.81	44.24	0.1341	0.1383	0.1649	21.73	6837.53	19.39
Panther	30	7	3.00	3.00	9.00	212.05	49.48	261.53	586.13	327.76	913.89	90.65	0.1263	0.1302	0.1550	19.20	8232.19	17.72
Lion	30	7	3.18	3.18	22.30	238.26	55.59	293.85	658.57	368.27	1026.84	100.72	0.1124	0.1163	0.1384	19.20	8232.19	17.72
Bear	30	7	3.35	3.35	23.50	264.42	61.70	326.11	730.87	408.70	1139.57	110.61	0.1013	0.1048	0.1247	19.20	8232.19	17.72
Goat	30	7	3.71	3.71	26.00	324.30	75.67	399.97	896.39	501.26	1397.65	128.37	0.0826	0.0864	0.1026	19.20	8232.19	17.72
Antelope	54	7	2.97	2.97	26.70	374.10	48.49	422.59	1034.54	321.24	1355.78	115.70	0.0740	0.0780	0.0921	20.46	7471.98	18.61
Sheep	30	7	3.99	3.99	27.90	375.10	87.52	462.62	1036.80	579.77	1616.58	148.48	0.0714	0.0752	0.0892	19.20	8232.19	17.72
Bison	54	7	3.00	3.00	27.00	381.69	49.48	431.17	1055.55	327.76	1383.31	118.05	0.0726	0.0765	0.0908	20.46	7471.98	18.61
Zebra	54	7	3.18	3.18	28.60	428.87	55.59	484.46	1186.01	368.27	1554.28	130.60	0.0646	0.0686	0.0814	20.46	7471.98	18.61
Deer	30	7	4.27	4.27	29.90	429.59	100.24	529.83	1187.42	664.00	1851.43	177.66	0.0623	0.0663	0.0785	19.20	8232.19	17.72
Camel	54	7	3.35	3.35	30.20	475.95	61.70	537.65	1316.21	408.70	1724.91	143.77	0.0582	0.0625	0.0733	20.46	7471.98	18.61
Elk	30	7	4.50	4.50	31.50	477.12	111.33	588.44	1318.79	737.46	2056.25	181.45	0.0561	0.0603	0.0713	19.20	8232.19	17.72
Moose	54	7	3.53	3.53	31.80	528.47	68.51	596.98	1461.45	453.80	1915.25	154.52	0.0524	0.0569	0.0666	20.46	7471.98	18.61