

### 3-3 ACSR/AS (AW) Conductor ASTM B549-93

ACSR/AS code word	Conductor size CM or AWG	Stranding Nos/in.		Cross section in <sup>2</sup>		Overall diameter in.		Weight pounds/1,000 ft.			Ultimate strength pounds	Calculated DC resistance at 20°C Ω/1,000 ft.
		Aluminum	AS Wire	Aluminum	AS Wire	ACSR/ AS	AS core	Aluminum	AS Wire	ACSR/ AS		
Mallard	795,000	30/0.1628	19/0.0977	0.6244	0.1424	1.140	0.489	752	410	1,162	37,110	0.02040
Condor	795,000	54/0.1213	7/0.1213	0.6244	0.0809	1.093	0.364	750	232	982	27,780	0.02101
Tern	795,000	45/0.1329	7/0.0886	0.6244	0.0432	1.063	0.266	750	124	874	21,450	0.02142
Coot	795,000	36/0.1486	1/0.1486	0.6244	0.0173	1.040	0.1486	746	49.6	796	16,570	0.02162
Drake	795,000	26/0.1749	7/0.1360	0.6244	0.1017	1.108	0.408	750	292	1,042	30,590	0.02077
Cuckoo	795,000	24/0.1820	7/0.1213	0.6244	0.0809	1.092	0.364	750	232	982	27,510	0.02100
Redwing	715,500	30/0.1544	19/0.0926	0.5620	0.1281	1.081	0.463	676	368	1,044	33,350	0.02270
Starling	715,500	26/0.1659	7/0.1290	0.5620	0.0915	1.051	0.387	675	262	937	27,540	0.02308
Stilt	715,500	24/0.1727	7/0.1151	0.5620	0.0728	1.036	0.345	675	209	884	24,780	0.02232
Gannet	666,600	26/0.1601	7/0.1245	0.5235	0.0852	1.014	0.373	629	244	873	25,990	0.02468
Flamingo	666,600	24/0.1667	7/0.1111	0.5235	0.0679	1.000	0.333	629	195	824	23,080	0.02504
Swift	636,000	36/0.1329	1/0.1329	0.4945	0.0139	0.930	0.1329	597	39.6	637	13,170	0.02616
Egret	636,000	30/0.1456	19/0.0874	0.4995	0.1139	1.019	0.437	601	328	929	29,920	0.02550
Scoter	636,000	30/0.1456	7/0.1456	0.4995	0.1166	1.019	0.437	601	335	936	29,200	0.02546
Grosbeak	636,000	26/0.1564	7/0.1216	0.4995	0.0814	0.990	0.365	600	233	833	24,800	0.02596
Rook	636,000	24/0.1628	7/0.1085	0.4995	0.0648	0.977	0.326	600	186	786	22,000	0.02628
Kingbird	636,000	18/0.1880	1/0.1880	0.4995	0.0277	0.940	0.1880	597	79.3	676	15,010	0.02676
Teal	605,000	30/0.1420	19/0.0852	0.4752	0.1382	0.994	0.426	572	311	883	28,450	0.02680
Wood Duck	605,000	30/0.1420	7/0.1420	0.4752	0.1109	0.994	0.426	572	318	890	28,390	0.02676
Squab	605,000	26/0.1525	7/0.1186	0.4752	0.0774	0.966	0.356	571	222	793	23,580	0.02731
Peacock	605,000	24/0.1588	7/0.1059	0.4752	0.0616	0.953	0.318	571	177	748	20,960	0.02758
Eagle	556,500	30/0.1362	7/0.1362	0.4371	0.1020	0.953	0.4036	526	293	819	26,860	0.02909
Dove	556,500	26/0.1463	7/0.1138	0.4371	0.0712	0.927	0.3414	525	204	729	21,710	0.02968
Parakeet	556,500	24/0.1523	7/0.1015	0.4371	0.0567	0.914	0.3045	525	162	687	19,260	0.02999
Osprey	556,500	18/0.1758	1/0.1758	0.4371	0.0243	0.879	0.1758	522	69.0	591	13,200	0.03061
Hen	477,000	30/0.1261	7/0.1261	0.3746	0.0874	0.883	0.3783	451.0	251	702	23,390	0.03393
Hawk	477,000	26/0.1354	7/0.1053	0.3746	0.0610	0.858	0.3162	450.0	175	625	18,940	0.03465
Flicker	477,000	24/0.1410	7/0.0940	0.3746	0.0485	0.846	0.2820	450.0	139	589	16,700	0.03499
Pelican	477,000	18/0.1628	1/0.1628	0.3746	0.0208	0.814	0.1628	447.8	59.0	506.8	11,450	0.03568
Lark	397,500	30/0.1151	7/0.1151	0.3122	0.0728	0.806	0.3453	375.9	209	584.9	19,640	0.04071
Ibis	397,500	26/0.1236	7/0.0961	0.3122	0.0508	0.783	0.2883	375.0	146	521	15,780	0.04159
Brant	397,500	24/0.1287	7/0.0858	0.3122	0.0403	0.772	0.2574	375.0	116	491	14,050	0.04200
Chickadee	397,500	18/0.1486	1/0.1486	0.3122	0.0173	0.743	0.1486	372.5	49.5	422	9,760	0.04284
Oriole	336,400	30/0.1059	7/0.1059	0.2642	0.0617	0.741	0.3177	318.1	177	495.1	16,740	0.04810
Linnet	336,400	26/0.1137	7/0.0884	0.2642	0.0430	0.721	0.2652	317.3	123	440.3	13,470	0.04914
Merlin	336,400	18/0.1367	1/0.1367	0.2642	0.0147	0.684	0.1367	315.8	41.9	357.7	8,540	0.05061
Ostrich	300,000	26/0.1074	7/0.0835	0.2356	0.0384	0.680	0.2505	283.0	110	393	12,130	0.05507
Partridge	266,800	26/0.1013	7/0.0788	0.2096	0.0341	0.642	0.2364	251.7	98.0	349.7	10,880	0.06190
Waxwing	266,800	18/0.1217	1/0.1217	0.2096	0.0116	0.609	0.1217	250.4	33.2	283.6	6,820	0.06386
Penguin	(4/0)	6/0.1878	1/0.1878	0.1662	0.0277	0.563	0.1878	97.7	79.1	276.8	7,680	0.07721
Pigeon	(3/0)	6/0.1672	1/0.1672	0.1318	0.0220	0.502	0.1672	156.8	62.7	219.5	6,300	0.09740
Quail	(2/0)	6/0.1489	1/0.1489	0.1045	0.0174	0.447	0.1489	124.3	49.7	174	5,120	0.1228
Raven	(1/0)	6/0.1327	1/0.1327	0.0829	0.0138	0.398	0.1327	98.6	39.5	138.1	4,250	0.1546
Robin	(1)	6/0.1181	1/0.1181	0.0657	0.0110	0.355	0.1181	78.2	31.3	109.5	3,440	0.1952
Sparate	(2)	7/0.0974	1/0.1299	0.0521	0.0132	0.325	0.1299	62.0	37.9	99.9	3,520	0.2394
Sparrow	(2)	6/0.1052	1/0.1052	0.0521	0.0087	0.316	0.1052	62.0	24.8	86.8	2,760	0.2461
Swanate	(4)	7/0.0772	1/0.1029	0.0328	0.0083	0.257	0.1029	39.0	23.8	62.8	2,270	0.3809
Swan	(4)	6/0.0834	1/0.0834	0.0328	0.0055	0.250	0.0834	39.0	15.6	54.6	1,780	0.3916