

Conductor Information for ACSS/TW Conductors

CODE NAME	SIZE	TYPE	STRANDING	DIAMETER (IN)		WEIGHT PER 1000 FT	RATED STRENGTH	RESISTANCE OHMS/1000 FT		AMPACITY @ 200° C	SAG10® CHART NUMBER
	KCMIL			AL/ST	STEEL CORE			COMPLETE CABLE	DC @ 20°C		
							LBS	LBS			
Oriole/ACSS/TW	336.4	23	18/7	0.318	0.693	524.9	14,800	0.2565	0.3151	940	3-955
Flicker/ACSS/TW	477.0	13	18/7	0.282	0.776	612.8	13,000	0.1838	0.2255	1151	3-944
Hawk/ACSS/TW	477.0	16	18/7	0.316	0.789	655.0	15,600	0.1825	0.2247	1159	3-945
Hen/ACSS/TW	477.0	23	18/7	0.378	0.825	744.5	21,000	0.1809	0.2225	1181	3-955
Parakeet/ACSS/TW	556.5	13	18/7	0.305	0.835	714.9	15,200	0.1569	0.1935	1271	3-944
Dove/ACSS/TW	556.5	16	20/7	0.341	0.852	764.5	18,200	0.1564	0.1928	1282	3-945
Calumet/ACSS/TW	565.3	16	18/7	0.344	0.858	775.8	18,400	0.1540	0.1898	1295	3-945
Mohawk/ACSS/TW	571.7	13	18/7	0.309	0.846	734.7	15,600	0.1527	0.1884	1294	3-644
Rook/ACSS/TW	636.0	13	19/7	0.326	0.890	816.0	17,300	0.1373	0.1696	1386	3-944
Grosbeak/ACSS/TW	636.0	16	20/7	0.365	0.908	873.5	20,700	0.1369	0.1689	1398	3-945
Scoter/ACSS/TW	636.0	23	18/7	0.437	0.953	992.4	27,400	0.1357	0.1672	1427	3-955
Oswego/ACSS/TW	664.8	16	20/7	0.373	0.927	913.4	21,700	0.1309	0.1617	1439	3-945
Mystic/ACSS/TW	666.6	13	20/7	0.333	0.913	856.3	18,200	0.1310	0.1619	1431	3-944
Wabash/ACSS/TW	762.8	16	20/7	0.399	0.990	1047.0	24,900	0.1141	0.1411	1573	3-945
Maumee/ACSS/TW	768.2	13	20/7	0.359	0.977	987.8	21,000	0.1137	0.1407	1569	3-944
Tern/ACSS/TW	795.0	7	17/7	0.236	0.960	891.0	15,200	0.1105	0.1373	1580	3-951
Puffin/ACSS/TW	795.0	10	18/7	0.332	0.980	974.0	18,900	0.1101	0.1365	1595	3-942
Condor/ACSS/TW	795.0	13	20/7	0.364	0.993	1020.0	21,700	0.1098	0.1361	1604	3-944
Drake/ACSS/TW	795.0	16	20/7	0.408	1.010	1091.0	25,900	0.1095	0.1355	1616	3-945
Canary/ACSS/TW	900.0	13	30/7	0.387	1.080	1159.0	24,600	0.0975	0.1211	1748	3-954
Fraser/ACSS/TW	946.7	10	35/7	0.346	1.077	1142.0	21,100	0.0930	0.1159	1786	3-942
Phoenix/ACSS/TW	954.0	5	30/7	0.251	1.044	1028.0	14,200	0.0927	0.1158	1769	3-949
Rail/ACSS/TW	954.0	7	32/7	0.291	1.061	1074.0	16,700	0.0926	0.1155	1781	3-951
Cardinal/ACSS/TW	954.0	13	20/7	0.399	1.084	1227.0	26,000	0.0915	0.1138	1805	3-954
Kettle/ACSS/TW	957.2	7	32/7	0.292	1.060	1079.0	16,800	0.0923	0.1152	1783	3-951
Suwannee/ACSS/TW	959.6	16	22/7	0.448	1.108	1318.0	30,700	0.0907	0.1127	1827	3-945
Columbia/ACSS/TW	966.2	13	21/7	0.401	1.092	1241.0	26,400	0.0938	0.1124	1821	3-954
Snowbird/ACSS/TW	1033.5	5	30/7	0.261	1.089	1114.0	15,400	0.0856	0.1072	1865	3-949
Ortolan/ACSS/TW	1033.5	7	32/7	0.303	1.102	1163.0	18,100	0.0854	0.1069	1875	3-951
Curllew/ACSS/TW	1033.5	13	22/7	0.415	1.128	1326.0	28,200	0.0845	0.1053	1902	3-954
—	1080.0	7	20/7	0.310	1.131	1211.0	18,900	0.0814	0.1020	1936	3-951
Avocet/ACSS/TW	1113.0	5	30/7	0.271	1.129	1199.0	16,300	0.0794	0.0999	1957	3-949
Bluejay/ACSS/TW	1113.0	7	33/7	0.315	1.143	1253.0	19,500	0.0793	0.0996	1967	3-951
Finch/ACSS/TW	1113.0	13	38/19	0.431	1.185	1427.0	30,400	0.0789	0.0986	1998	3-957
Genesee/ACSS/TW	1158.0	7	33/7	0.323	1.165	1308.0	20,500	0.0762	0.0959	2018	3-951
Hudson/ACSS/TW	1158.4	13	26/7	0.440	1.196	1489.0	31,100	0.0754	0.0943	2050	3-954
Cheyenne/ACSS/TW	1168.1	5	30/7	0.278	1.155	1260.0	17,200	0.0757	0.0954	2018	3-949
Oxbird/ACSS/TW	1192.5	5	30/7	0.281	1.167	1285.0	17,500	0.0741	0.0935	2046	3-949
Bunting/ACSS/TW	1192.5	7	33/7	0.326	1.181	1342.0	20,900	0.0740	0.0932	2056	3-951
Grackle/ACSS/TW	1192.5	13	38/19	0.446	1.225	1529.0	32,600	0.0737	0.0923	2089	3-957
Yukon/ACSS/TW	1233.6	13	38/19	0.445	1.245	1586.0	33,200	0.0712	0.0893	2136	3-954
Nelson/ACSS/TW	1257.1	7	35/7	0.335	1.213	1417.0	22,100	0.0702	0.0887	2127	3-951
Scissortail/ACSS/TW	1272.0	5	30/7	0.290	1.202	1371.0	18,700	0.0695	0.0880	2132	3-949
Catawba/ACSS/TW	1272.0	5	30/7	0.290	1.203	1372.0	18,700	0.0695	0.0880	2132	3-949
Bittern/ACSS/TW	1272.0	7	35/7	0.336	1.220	1432.0	22,300	0.0694	0.0877	2144	3-951
Pheasant/ACSS/TW	1272.0	13	39/19	0.461	1.264	1630.0	34,100	0.0691	0.0867	2178	3-957
Thames/ACSS/TW	1334.6	13	39/19	0.472	1.290	1713.0	35,800	0.0658	0.0828	2245	3-957

REFERENCE MATERIAL

Conductor Information for ACSS/TW Conductors (cont.)

CODE NAME	SIZE	TYPE	STRANDING	DIAMETER (IN)		WEIGHT PER	RATED	RESISTANCE		AMPACITY	SAG10® CHART NUMBER		
	KCMIL			AL/ST	STEEL CORE	COMPLETE CABLE		1000 FT	STRENGTH	OHMS/1000 FT		@ 200° C	
								LBS		LBS		DC @ 20°C	AC @ 75°C
Dipper/ACSS/TW	1351.5	7	35/7	0.347	1.256	1521.0	23,700	0.0653	0.0828	2229	3-951		
Martin/ACSS/TW	1351.5	13	39/19	0.475	1.300	1732.0	36,200	0.0650	0.0819	2264	3-957		
Mackenzie/ACSS/TW	1359.7	7	36/7	0.348	1.259	1530.0	23,900	0.0649	0.0823	2237	3-951		
Truckee/ACSS/TW	1372.5	5	30/7	0.301	1.248	1481.0	20,200	0.0644	0.0819	2238	3-949		
Bobolink/ACSS/TW	1431.0	7	36/7	0.357	1.291	1611.0	25,100	0.0617	0.0785	2312	3-951		
Plover/ACSS/TW	1431.0	13	37/19	0.489	1.337	1834.0	38,400	0.0614	0.0775	2350	3-957		
Merrimack/ACSS/TW	1433.6	13	39/19	0.489	1.340	1840.0	38,400	0.0613	0.0774	2354	3-957		
Miramichi/ACSS/TW	1455.3	7	36/7	0.360	1.302	1640.0	25,600	0.0607	0.0773	2338	3-951		
St. Croix/ACSS/TW	1467.8	5	33/7	0.312	1.292	1585.0	21,600	0.0602	0.0770	2338	3-949		
Rio Grande/ACSS/TW	1533.3	13	39/19	0.506	1.382	1968.0	41,200	0.0573	0.0726	2456	3-957		
Potomac/ACSS/TW	1557.4	7	36/7	0.372	1.345	1755.0	27,300	0.0567	0.0726	2441	3-951		
Platte/ACSS/TW	1569.0	5	33/7	0.322	1.334	1693.0	23,100	0.0564	0.0724	2439	3-949		
Lapwing/ACSS/TW	1590.0	7	36/7	0.376	1.358	1790.0	27,900	0.0555	0.0712	2473	3-951		
Falcon/ACSS/TW	1590.0	13	42/19	0.515	1.408	2038.0	42,600	0.0553	0.0702	2515	3-957		
Pecos/ACSS/TW	1622.0	13	39/19	0.532	1.424	2107.0	45,000	0.0541	0.0688	2551	3-957		
Schuykill/ACSS/TW	1657.4	7	36/7	0.384	1.386	1868.0	29,100	0.0533	0.0685	2539	3-951		
James/ACSS/TW	1730.6	13	34/19	0.538	1.470	2221.0	46,400	0.0508	0.0649	2657	3-944		
Pee Dee/ACSS/TW	1758.6	7	37/7	0.396	1.427	1982.0	30,900	0.0502	0.0649	2637	3-951		
Chukar/ACSS/TW	1780.0	8	37/19	0.437	1.445	2061.0	35,300	0.0495	0.0639	2670	3-959		
Cumberland/ACSS/TW	1926.9	13	42/19	0.567	1.545	2471.0	51,600	0.0564	0.0715	2569	3-957		
Athabaska/ACSS/TW	1949.6	7	42/7	0.418	1.504	2199.0	34,300	0.0453	0.0592	2817	3-951		
Powder/ACSS/TW	2153.8	8	64/19	0.481	1.602	2498.0	42,100	0.0412	0.0543	3009	3-959		
Bluebird/ACSS/TW	2156.0	8	64/19	0.481	1.608	2512.0	42,100	0.0411	0.0543	3014	3-959		
Santee/ACSS/TW	2627.3	8	64/19	0.531	1.762	3048.0	51,300	0.0338	0.0459	3403	3-959		

Notes:

1. Data based on a nominal cable manufactured in accordance with ASTM B 857.
2. Resistance and ampacity based on an aluminum conductivity of 63%, IACS at 20°C, and a steel conductivity of 8% IACS at 20°C.
3. Ampacity based on a 200°C conductor temperature, 25°C ambient temperature, 2 ft/sec. wind, in sun, with emissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.
4. Rated strengths based on Class A galvanized steel core wire in accordance with ASTM B 498.