



ACSS/TW

Aluminum Conductor, Steel Supported. Trapezoidal Shaped Aluminum Strands. Bare.

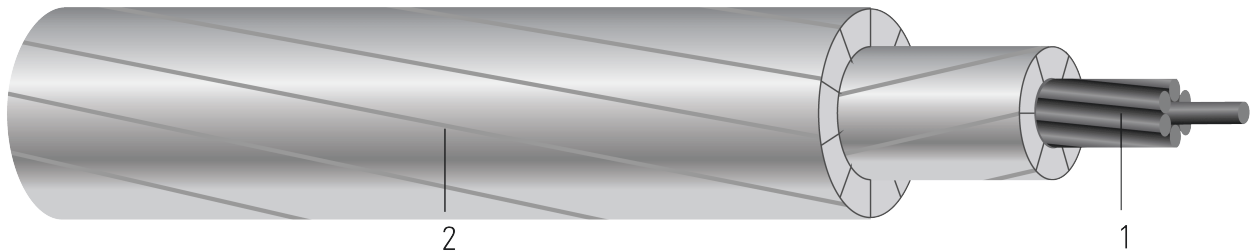


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Core:** Steel strands form the central core of the conductor with one or more layers of 63% minimum average conductivity aluminum 1350-0 wire stranded around it.
2. **Stranding:** ACSS is a composite concentric-lay-stranded conductor.
 - The steel core carries most or all of the mechanical load of the conductor due to the "0" (fully annealed or soft) temper aluminum.
 - Zinc-5% aluminum-mischmetal alloy coating.
 - High strength steel core, aluminized, and aluminum clad steel core is also available.

APPLICATIONS AND FEATURES:

Southwire's ACSS/TW is designed for overhead distribution and transmission lines. It is designed to operate continuously at elevated temperatures up to 250°C without loss of strength, it sags less under emergency electrical loadings than ACSR/TW, excellent self-damping properties, and its final sags are not affected by long-term creep of aluminum. Southwire's ACSS/TW is available in equal area and equal diameter design. The equal area design allows equal ampacity in a smaller diameter conductor when compared with a standard ACSS conductor. The equal diameter design allows more ampacity in an equal diameter conductor when compared with a standard ACSS conductor. ACSS/TW also provides many design opportunities for new line construction: i.e., reduced tower cost, decreased sag, increased self-damping properties, increased operating temperature and improved corrosion resistance.

SPECIFICATIONS:

- ASTM B500 Metallic Coated Stranded Steel Core for use in overhead Electrical Conductors
- ASTM B609 Standard Specification for Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes
- ASTM B802 Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR).
- ASTM B803 High-Strength Zinc-5% Aluminum Mischmetal Alloy-Coated Steel Core Wire for Use in Overhead Electrical Conductors
- ASTM B857 Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Supported (ACSS/TW)



Area Equal to Standard ACSR Sizes - Weights and Measurements

Code Word	Size	Type No.	AL Cross Sectional Area	Total Cross Sectional Area	Layers of AL	No. of AL Wires	No. x Dia Individual Steel Wire	Steel Core Dia	Overall OD	AL Weight	Steel Weight	Overall Weight
	(AWG or kcmil)		inch sq.	inch sq.				inch	inch	lbs/1,000'	lbs/1,000'	lbs/1,000'
Partridge/ACSS/TW	266.8	16	0.2094	0.2435	2	14	7 x 0.0788	0.2364	0.595	250.5	115.6	366.1
Linnet/ACSS/TW	336.4	16	0.2641	0.3070	2	16	7 x 0.0885	0.2655	0.667	316.1	145.8	461.9
Oriole/ACSS/TW	336.4	23	0.2642	0.3258	2	16	7 x 0.1059	0.3177	0.692	318.2	209.2	527.4
Flicker/ACSS/TW	477.0	13	0.3747	0.4233	2	18	7 x 0.0940	0.2820	0.776	447.8	164.5	612.3
Hawk/ACSS/TW	477.0	16	0.3746	0.4356	2	18	7 x 0.1054	0.3162	0.790	448.7	206.4	655.1
Hen/ACSS/TW	477.0	23	0.3747	0.4621	2	20	7 x 0.1261	0.3783	0.820	451.1	296.6	747.8
Parakeet/ACSS/TW	556.5	13	0.4371	0.4937	2	18	7 x 0.1015	0.3045	0.835	522.4	191.8	714.2
Dove/ACSS/TW	556.5	16	0.4371	0.5083	2	20	7 x 0.1138	0.3414	0.850	523.4	241.1	764.5
Rook/ACSS/TW	636.0	13	0.4995	0.5643	2	20	7 x 0.1085	0.3255	0.893	597.0	219.2	816.2
Grosbeak/ACSS/TW	636.0	16	0.4995	0.5808	2	20	7 x 0.1216	0.3648	0.909	601.5	275.8	877.3
Scoter/ACSS/TW	636.0	23	0.4995	0.6160	2	22	7 x 0.1456	0.4368	0.942	600.5	394.7	995.2
Tern/ACSS/TW	795.0	7	0.6244	0.6675	2	17	7 x 0.0886	0.2658	0.960	745.2	146.1	891.3
Puffin/ACSS/TW	795.0	11	0.6244	0.6919	2	18	7 x 0.1056	0.3168	0.980	745.9	228.5	974.4
Condor/ACSS/TW	795.0	13	0.6244	0.7053	2	20	7 x 0.1213	0.3639	0.993	746.3	273.9	1020.0
Drake/ACSS/TW	795.0	16	0.6244	0.7261	2	20	7 x 0.1360	0.4080	1.010	747.0	344.3	1091.3
Canary/ACSS/TW	900.0	13	0.7069	0.7983	2	20	7 x 0.1291	0.3873	1.055	844.8	310.9	1155.7
Phoenix/ACSS/TW	954.0	5	0.7493	0.7876	3	30	7 x 0.0837	0.2511	1.044	897.7	130.4	1028.0
Rail/ACSS/TW	954.0	7	0.7493	0.8011	3	32	7 x 0.0971	0.2913	1.061	898.6	175.5	1074.1
Cardinal/ACSS/TW	954.0	13	0.7493	0.8464	2	20	7 x 0.1329	0.3987	1.080	895.5	328.8	1224.3
Snowbird/ACSS/TW	1033.5	5	0.8117	0.8534	3	30	7 x 0.0871	0.2613	1.089	972.5	141.2	1114.0
Ortolan/ACSS/TW	1033.5	7	0.8117	0.8678	3	32	7 x 0.1010	0.3030	1.102	972.5	189.9	1162.0
Curlew/ACSS/TW	1033.5	13	0.8117	0.9169	2	22	7 x 0.1383	0.4149	1.132	970.1	356.1	1326.2
Avocet/ACSS/TW	1113.0	5	0.8742	0.9191	3	30	7 x 0.0904	0.2712	1.129	1047.0	152.1	1199.0
	1113.0	7	0.8742	0.9347	3	33	7 x 0.1049	0.3147	1.143	1048.0	204.8	1253.0



Code Word	Size	Type No.	AL Cross Sectional Area	Total Cross Sectional Area	Layers of AL	No. of AL Wires	No. x Dia Individual Steel Wire	Steel Core Dia	Overall OD	AL Weight	Steel Weight	Overall Weight
	(AWG or kcmil)		inch sq.	inch sq.				inch	inch	lbs/1,000'	lbs/1,000'	lbs/1,000'
Bluejay/ACSS/TW												
Finch/ACSS/TW	1113.0	13	0.8743	0.9852	3	38	19 x 0.0862	0.4310	1.185	1051.0	376.1	1427.0
Oxbird/ACSS/TW	1192.5	5	0.9366	0.9848	3	30	7 x 0.0936	0.2808	1.170	1122.9	163.1	1286.0
Bunting/ACSS/TW	1192.5	7	0.9366	1.0013	3	34	7 x 0.1085	0.3255	1.181	1123.2	219.6	1342.8
Grackle/ACSS/TW	1192.5	13	0.9366	1.0554	3	38	19 x 0.0892	0.4460	1.225	1127.8	402.9	1530.7
Scissortail/ACSS/TW	1272.0	5	0.9991	1.0505	3	30	7 x 0.0967	0.2901	1.203	1197.0	174.0	1371.0
Bittern/ACSS/TW	1272.0	7	0.9990	1.0681	3	38	7 x 0.1121	0.3363	1.224	1197.6	234.9	1432.5
Pheasant/ACSS/TW	1272.0	13	0.9990	1.1256	3	39	19 x 0.0921	0.4605	1.260	1201.0	429.5	1630.5
Dipper/ACSS/TW	1351.5	7	1.0615	1.1348	3	35	7 x 0.1155	0.3465	1.256	1273.0	248.3	1521.0
Martin/ACSS/TW	1351.5	13	1.0615	1.1959	3	42	19 x 0.0949	0.4745	1.300	1276.1	456.0	1732.1
Bobolink/ACSS/TW	1431.0	7	1.1236	1.2017	3	36	7 x 0.1189	0.3567	1.291	1347.0	263.1	1611.0
Plover/ACSS/TW	1431.0	13	1.1239	1.2664	3	44	19 x 0.0977	0.4885	1.337	1351.0	483.2	1834.0
Lapwing/ACSS/TW	1590.0	7	1.2488	1.3351	3	36	7 x 0.1253	0.3759	1.358	1497.6	292.3	1789.9
Falcon/ACSS/TW	1590.0	13	1.2488	1.4071	3	42	19 x 0.1030	0.5150	1.410	1502.8	537.2	2040.0
Chukar/ACSS/TW	1780.0	8	1.3986	1.5126	3	38	19 x 0.0874	0.4370	1.445	1680.6	386.8	2067.4
Bluebird/ACSS/TW	2156.0	8	1.6933	1.8309	4	64	19 x 0.0961	0.4805	1.608	2045.0	467.5	2512

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 referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emmissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.

4) Rated breaking strength for standard core based on Class A Galfan coated steel core wire in accordance with ASTM B 802.

5) Rated strength for high strength core based on Class A Galfan coated high strength steel core wire in accordance with ASTM B 803.

6) The final design of a shaped wire compact conductor is contingent upon several factors such as: layer diameter, wire width and wire thickness. The actual configuration of a given size may vary between manufacturers. This may result in a slight variation in the number of wires, number of layers and dimensions of individual wires from that shown in the chart.



Area Equal to Standard ACSR Sizes - Electrical and Engineering Data

Code Word	Size	Rated Strength	High Strength	HS285 Strength	DC Resistance @ 20°C	AC Resistance @ 75°C	Ampacity @ 75°C	Ampacity @ 100°C	Ampacity @ 150°C	Ampacity @ 200°C	Ampacity @ 250°C
	(AWG or kcmil)	lbs	lbs	lbs	Ohms/Mile	Ohms/Mile	Amps	Amps	Amps	Amps	Amps
Partridge/ACSS/TW	266.8	8,880	9,730	11,400	0.3262	0.4009	454	553	692	795	880
Linnet/ACSS/TW	336.4	11,200	12,300	14,400	0.2588	0.3181	523	638	801	921	1021
Oriole/ACSS/TW	336.4	14,800	16,300	19,100	0.2565	0.3151	533	650	816	940	1043
Flicker/ACSS/TW	477.0	13,000	14,200	16,400	0.1831	0.2255	648	793	998	1151	1279
Hawk/ACSS/TW	477.0	15,600	17,100	19,800	0.1825	0.2247	652	799	1005	1159	1289
Hen/ACSS/TW	477.0	21,000	22,700	26,700	0.1809	0.2225	663	813	1024	1181	1315
Parakeet/ACSS/TW	556.5	15,200	16,600	19,100	0.1569	0.1935	713	874	1102	1271	1415
Dove/ACSS/TW	556.5	18,200	19,900	23,100	0.1564	0.1928	719	881	1111	1282	1427
Rook/ACSS/TW	636.0	17,300	19,000	21,900	0.1373	0.1696	775	951	1200	1386	1544
Grosbeak/ACSS/TW	636.0	20,700	22,400	26,000	0.1369	0.1689	781	958	1210	1398	1557
Scoter/ACSS/TW	636.0	27,400	29,700	35,000	0.1356	0.1672	795	976	1234	1427	1591
Tern/ACSS/TW	795.0	14,200	15,200	17,400	0.1105	0.1373	878	1080	1366	1580	1762
Puffin/ACSS/TW	795.0	17,700	19,200	22,000	0.1101	0.1365	886	1090	1378	1595	1778
Condor/ACSS/TW	795.0	21,700	23,300	26,900	0.1098	0.1361	890	1095	1386	1604	1789
Drake/ACSS/TW	795.0	25,900	28,000	32,600	0.1095	0.1355	896	1103	1396	1616	1803
Canary/ACSS/TW	900.0	24,600	26,400	30,500	0.0970	0.1205	962	1185	1501	1739	1942
Phoenix/ACSS/TW	954.0	14,200	15,200	17,100	0.0927	0.1187	967	1189	1503	1740	1940
Rail/ACSS/TW	954.0	16,700	18,000	20,400	0.0926	0.1183	972	1196	1512	1750	1953
Cardinal/ACSS/TW	954.0	26,000	28,000	32,300	0.0915	0.1138	997	1229	1558	1806	2016
Snowbird/ACSS/TW	1033.5	15,400	16,400	18,500	0.0856	0.1098	1016	1251	1584	1834	2048
Ortolan/ACSS/TW	1033.5	18,100	19,500	22,000	0.0854	0.1095	1021	1257	1592	1843	2058
Curlew/ACSS/TW	1033.5	28,200	30,300	35,000	0.0845	0.1053	1048	1293	1641	1903	2126
Avocet/ACSS/TW	1113.0	16,300	17,500	19,500	0.0794	0.1022	1063	1310	1661	1925	2150
	1113.0	19,500	21,000	23,800	0.0793	0.1019	1068	1317	1669	1935	2161



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	(AWG or kcmil)	lbs	lbs	lbs	Ohms/Mile	Ohms/Mile	Amps	Amps	Amps	Amps	Amps
Bluejay/ACSS/TW											
Finch/ACSS/TW	1113.0	30,400	33,200	38,700	0.0789	0.1010	1084	1336	1695	1965	2196
Oxbird/ACSS/TW	1192.5	17,500	18,700	20,900	0.0741	0.0957	1108	1367	1735	2013	2249
Bunting/ACSS/TW	1192.5	20,900	22,500	25,400	0.0740	0.0954	1114	1374	1744	2023	2261
Grackle/ACSS/TW	1192.5	32,600	35,500	41,500	0.0737	0.0944	1130	1395	1771	2055	2298
Scissortail/ACSS/TW	1272.0	18,700	20,000	22,300	0.0695	0.0900	1152	1423	1807	2098	2346
Bittern/ACSS/TW	1272.0	22,300	24,000	27,100	0.0694	0.0897	1159	1431	1817	2110	2360
Pheasant/ACSS/TW	1272.0	34,100	37,300	43,000	0.0691	0.0887	1176	1452	1846	2143	2398
Dipper/ACSS/TW	1351.5	23,700	25,500	28,800	0.0653	0.0847	1202	1485	1888	2194	2455
Martin/ACSS/TW	1351.5	36,200	39,600	45,600	0.0650	0.0837	1220	1508	1918	2228	2494
Bobolink/ACSS/TW	1431.0	25,100	27,000	30,500	0.0617	0.0802	1243	1538	1958	2276	2549
Plover/ACSS/TW	1431.0	38,400	41,900	48,300	0.0614	0.0793	1263	1562	1989	2313	2590
Lapwing/ACSS/TW	1590.0	27,900	29,600	33,500	0.0555	0.0727	1324	1640	2092	2435	2730
Falcon/ACSS/TW	1590.0	42,600	46,600	53,700	0.0553	0.0717	1346	1668	2127	2477	2777
Chukar/ACSS/TW	1780.0	35,300	38,200	43,900	0.0495	0.0652	1421	1764	2255	2630	2952
Bluebird/ACSS/TW	2156.0	42,100	45,500	51,700	0.0412	0.0543	1601	1999	2573	3014	3396

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 referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emmissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.

4) Rated breaking strength for standard core based on Class A Galfan coated steel core wire in accordance with ASTM B 802.

5) Rated strength for high strength core based on Class A Galfan coated high strength steel core wire in accordance with ASTM B 803.

6) The final design of a shaped wire compact conductor is contingent upon several factors such as: layer diameter, wire width and wire thickness. The actual configuration of a given size may vary between manufacturers. This may result in a slight variation in the number of wires, number of layers and dimensions of individual wires from that shown in the chart.



Diameter Equal to Standard ACSR Sizes - Weights and Measurements

Code Word	Size	Type No.	AL Cross Sectional Area	Total Cross Sectional Area	Layers of AL	No. of AL Wires	No. x Dia Individual Steel Wire	Steel Core Dia	Overall OD	AL Weight	Steel Weight	Overall Weight
	(AWG or kcmil)		inch sq.	inch sq.				inch	inch	lbs/1,000'	lbs/1,000'	lbs/1,000'
Mohawk/ACSS/TW	571.7	13	0.4490	0.5074	2	18	7 x 0.1030	0.3090	0.850	537.0	197.5	734.5
Calumet/ACSS/TW	565.3	16	0.4439	0.5162	2	20	7 x 0.1146	0.3438	0.860	531.2	244.5	775.7
Mystic/ACSS/TW	666.6	13	0.5236	0.5914	2	20	7 x 0.1244	0.3732	0.913	630.4	230.3	860.7
Oswego/ACSS/TW	664.8	16	0.5221	0.6072	2	20	7 x 0.1244	0.3732	0.927	628.7	288.7	917.4
Maumee/ACSS/TW	768.2	13	0.6034	0.6819	2	20	7 x 0.1195	0.3585	0.977	721.1	265.9	987.0
Wabash/ACSS/TW	762.8	16	0.5992	0.6966	2	20	7 x 0.1331	0.3993	0.990	716.7	329.8	1046.5
Kettle/ACSS/TW	957.2	7	0.7518	0.8038	3	32	7 x 0.0973	0.2919	1.060	901.6	176.2	1078.0
Fraser/ACSS/TW	946.7	10	0.7436	0.8168	3	35	7 x 0.1154	0.3462	1.077	892.6	247.9	1141.0
Columbia/ACSS/TW	966.2	13	0.7589	0.8573	2	21	7 x 0.1338	0.4014	1.092	906.9	333.2	1240.0
Suwannee/ACSS/TW	959.6	16	0.7537	0.8762	2	22	7 x 0.1493	0.4479	1.110	901.6	415.0	1316.6
Cheyenne/ACSS/TW	1168.1	5	0.9175	0.9646	3	30	7 x 0.0926	0.2778	1.155	1099.0	159.6	1259.0
Genesee/ACSS/TW	1158.0	7	0.9095	0.9733	3	34	7 x 0.1078	0.3234	1.165	1092.0	216.0	1308.0
Hudson/ACSS/TW	1158.4	13	0.9098	1.0281	2	24	7 x 0.1467	0.4401	1.196	1087.3	400.7	1488.0
Catawba/ACSS/TW	1272.0	5	0.9991	1.0505	3	30	7 x 0.0967	0.2901	1.203	1197.0	174.0	1371.0
Nelson/ACSS/TW	1257.1	7	0.9874	1.0557	3	35	7 x 0.1115	0.3345	1.213	1184.0	231.4	1415.0
Yukon/ACSS/TW	1233.6	13	0.9689	1.0925	3	38	19 x 0.0910	0.4550	1.245	1166.7	419.3	1586.0
Truckee/ACSS/TW	1372.5	5	1.0780	1.1334	3	30	7 x 0.1004	0.3012	1.248	1292.0	187.6	1479.0
Mackenzie/ACSS/TW	1359.7	7	1.0679	1.1418	3	36	7 x 0.1159	0.3477	1.259	1281.0	250.0	1531.0
Thames/ACSS/TW	1334.6	13	1.0480	1.1809	3	38	19 x 0.0944	0.4720	1.290	1260.1	451.2	1711.3
St. Croix/ACSS/TW	1467.8	5	1.1529	1.2124	3	33	7 x 0.1041	0.3123	1.292	1381.0	201.7	1583.0
Miramichi/ACSS/TW	1455.3	7	1.1430	1.2222	3	36	7 x 0.1200	0.3600	1.302	1372.0	268.0	1640.0
Merrimack/ACSS/TW	1433.6	13	1.1250	1.2677	3	39	19 x 0.0978	0.4890	1.340	1355.8	484.3	1840.1
Platte/ACSS/TW	1569.0	5	1.2323	1.2957	3	33	7 x 0.1074	0.3222	1.334	1478	215.0	1693
	1557.4	7	1.2232	1.3079	3	36	7 x 0.1241	0.3723	1.350	1466.9	288.1	1755



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Potomac/ACSS/TW												
Rio Grande/ACSS/TW	1533.3	13	1.2043	1.3571	3	38	19 x 0.1012	0.5060	1.380	1449.0	519.0	1968.0
Schuykill/ACSS/TW	1657.4	7	1.3020	1.3920	3	36	7 x 0.1280	0.3840	1.386	1563	305.0	1868
Pecos/ACSS/TW	1622.0	13	1.2739	1.4429	3	39	19 x 0.1064	0.5320	1.420	1533.7	573.2	2106.9
Pee Dee/ACSS/TW	1758.6	7	1.3810	1.4770	3	38	7 x 0.1319	0.3957	1.427	1656.4	323.9	1980.3
James/ACSS/TW	1730.6	13	1.3590	1.5314	3	34	19 x 0.1075	0.5375	1.470	1636	585.0	2221
Athabaska/ACSS/TW	1949.6	7	1.5312	1.6377	3	44	7 x 0.1392	0.4176	1.504	1836	360.7	2197
Cumberland/ACSS/TW	1926.9	13	1.5134	1.7049	3	42	19 x 0.1133	0.5665	1.550	1821	650.0	2471
Powder/ACSS/TW	2153.8	8	1.6912	1.8290	4	64	19 x 0.0961	0.4805	1.602	2042.5	396.1	2438.6
Santee/ACSS/TW	2627.3	8	2.0630	2.2268	4	64	19 x 0.1062	0.5310	1.761	2491.5	571.1	3062.6

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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 referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.

4) Rated breaking strength for standard core based on Class A Galvan coated steel core wire in accordance with ASTM B 802.

5) Rated strength for high strength core based on Class A Galvan coated high strength steel core wire in accordance with ASTM B 803.

6) The final design of a shaped wire compact conductor is contingent upon several factors such as: layer diameter, wire width and wire thickness. The actual configuration of a given size may vary between manufacturers. This may result in a slight variation in the number of wires, number of layers and dimensions of individual wires from that shown in the chart.



Diameter Equal to Standard ACSR Sizes - Electrical and Engineering Data

Code Word	Size	Rated Strength	High Strength	HS285 Strength	DC Resistance @ 20°C	AC Resistance @ 75°C	Ampacity @ 75°C	Ampacity @ 100°C	Ampacity @ 150°C	Ampacity @ 200°C	Ampacity @ 250°C
	(AWG or kcmil)	lbs	lbs	lbs	Ohms/Mile	Ohms/Mile	Amps	Amps	Amps	Amps	Amps
Mohawk/ACSS/TW	571.7	15,600	17,100	19,700	0.1527	0.1884	725	889	1121	1294	1441
Calumet/ACSS/TW	565.3	18,400	20,200	23,500	0.1540	0.1898	725	890	1122	1295	1442
Mystic/ACSS/TW	666.6	18,200	19,900	22,900	0.1310	0.1619	798	980	1238	1431	1595
Oswego/ACSS/TW	664.8	21,700	23,400	27,200	0.1309	0.1616	802	985	1244	1439	1604
Maumee/ACSS/TW	768.2	21,000	23,000	26,500	0.1137	0.1407	872	1072	1356	1569	1750
Wabash/ACSS/TW	762.8	24,900	26,800	31,200	0.1141	0.1411	873	1074	1359	1573	1755
Kettle/ACSS/TW	957.2	16,800	18,100	20,400	0.0922	0.1180	973	1197	1514	1753	1955
Fraser/ACSS/TW	946.7	21,100	22,900	26,200	0.0930	0.1187	974	1199	1517	1756	1959
Columbia/ACSS/TW	966.2	26,400	28,300	32,800	0.0904	0.1124	1005	1239	1571	1822	2035
Suwannee/ACSS/TW	959.6	30,700	33,100	38,600	0.0907	0.1127	1008	1243	1576	1828	2042
Cheyenne/ACSS/TW	1168.1	17,200	18,300	20,500	0.0757	0.0979	1095	1350	1712	1986	2219
Genesee/ACSS/TW	1158.0	20,500	22,100	25,000	0.0762	0.0981	1094	1350	1712	1985	2218
Hudson/ACSS/TW	1158.4	31,100	33,500	38,800	0.0754	0.0943	1124	1389	1766	2051	2295
Catawba/ACSS/TW	1272.0	18,700	20,000	22,300	0.0695	0.0900	1152	1423	1807	2098	2346
Nelson/ACSS/TW	1257.1	22,100	23,800	26,900	0.0702	0.0907	1150	1420	1804	2094	2342
Yukon/ACSS/TW	1233.6	33,200	36,300	41,900	0.0712	0.0914	1154	1425	1810	2101	2350
Truckee/ACSS/TW	1372.5	20,200	21,500	24,000	0.0644	0.0838	1206	1491	1896	2203	2466
Mackenzie/ACSS/TW	1359.7	23,900	25,700	29,000	0.0649	0.0842	1206	1490	1895	2202	2465
Thames/ACSS/TW	1334.6	35,800	39,100	45,100	0.0658	0.0847	1210	1495	1902	2209	2472
St. Croix/ACSS/TW	1467.8	21,600	23,100	25,800	0.0602	0.0787	1256	1554	1979	2302	2578
Miramichi/ACSS/TW	1455.3	25,600	27,100	30,700	0.0607	0.0790	1269	1573	2007	2338	2577
Merrimack/ACSS/TW	1433.6	38,400	42,000	48,400	0.0613	0.0791	1277	1584	2021	2354	2595
Platte/ACSS/TW	1569.0	23,100	24,600	27,500	0.0564	0.0740	1319	1637	2092	2439	2692
	1557.4	27,300	29,000	32,800	0.0567	0.0741	1321	1639	2094	2441	2694



Code Word	Size	Rated Strength	High Strength	HS285 Strength	DC Resistance @ 20°C	AC Resistance @ 75°C	Ampacity @ 75°C	Ampacity @ 100°C	Ampacity @ 150°C	Ampacity @ 200°C	Ampacity @ 250°C
	(AWG or kcmil)	lbs	lbs	lbs	Ohms/Mile	Ohms/Mile	Amps	Amps	Amps	Amps	Amps
Potomac/ACSS/TW											
Rio Grande/ACSS/TW	1533.3	41,200	45,000	51,900	0.0573	0.0742	1329	1650	2108	2456	2710
Schuylkill/ACSS/TW	1657.4	29,100	30,900	34,900	0.0533	0.0700	1370	1702	2177	2539	2805
Pecos/ACSS/TW	1622.0	45,000	49,300	56,900	0.0541	0.0703	1377	1710	2187	2551	2816
Pee Dee/ACSS/TW	1758.6	30,900	32,800	37,100	0.0502	0.0663	1418	1763	2259	2637	2916
James/ACSS/TW	1730.6	46,400	50,800	58,500	0.0508	0.0663	1430	1778	2277	2657	2937
Athabaska/ACSS/TW	1949.6	34,300	36,500	41,300	0.0453	0.0595	1505	1873	2403	2808	3157
Cumberland/ACSS/TW	1926.9	51,600	56,400	65,000	0.0456	0.0600	1508	1875	2400	2802	3148
Powder/ACSS/TW	2153.8	42,100	45,500	51,700	0.0412	0.0543	1599	1996	2569	3009	3391
Santee/ACSS/TW	2627.3	51,300	55,600	63,100	0.0338	0.0459	1784	2237	2894	3403	3846

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 referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.

4) Rated breaking strength for standard core based on Class A Galvan coated steel core wire in accordance with ASTM B 802.

5) Rated strength for high strength core based on Class A Galvan coated high strength steel core wire in accordance with ASTM B 803.

6) The final design of a shaped wire compact conductor is contingent upon several factors such as: layer diameter, wire width and wire thickness. The actual configuration of a given size may vary between manufacturers. This may result in a slight variation in the number of wires, number of layers and dimensions of individual wires from that shown in the chart.