



CONDUCTOR DATA SHEET

Aluminum Conductors Steel Reinforced-Trapezoidal (ACSR/TW)



Area Equal to Standard ACSR Sizes

English units

Code	Size kcmil	Sectional area (sq.in)		Conductor Type	No. of Al. layers	Stranding		Diameter (in.)		Weight lb/1000ft			Rated Strength lb	Resistance Ω/1000ft	
		Alum	Total			Al	Steel N ^o x in.	Conductor	Steel Core	Total	Al	Steel		R _{dc} at 20°C	R _{ac} at 75°C
													Al		
Merlin/TW	336.4	0.2642	0.2788	6	2	14	1 x 0.1367	0.63	0.1367	365	315.5	49.5	8560	0.051	0.0625
Flicker/TW	477	0.3747	0.4233	13	2	18	7 x 0.0940	0.776	0.282	612.8	448.4	164.4	17200	0.0357	0.0437
Hawk/TW	477	0.3746	0.4356	16	2	18	7 x 0.1053	0.789	0.3159	655	448.7	206.3	19400	0.0356	0.0435
Parakeet/TW	556.5	0.4371	0.4937	13	2	18	7 x 0.1015	0.835	0.3045	714.9	523.2	191.7	20000	0.0306	0.0375
Dove/TW	556.5	0.4371	0.5083	16	2	20	7 x 0.1138	0.852	0.3414	764.5	523.5	241	22600	0.0305	0.0374
Swift/TW	636	0.4995	0.5133	3	3	27	1 x 0.1329	0.85	0.1329	646	599.2	46.8	13500	0.0272	0.0335
Rook/TW	636	0.4995	0.5643	13	2	19	7 x 0.1085	0.89	0.3255	816	597.9	219.1	22900	0.0268	0.0329
Grosbeak/TW	636	0.4995	0.5808	16	2	20	7 x 0.1216	0.908	0.3648	873.5	598.4	275.1	25400	0.0267	0.0327
Tern/TW	795	0.6244	0.6675	7	2	17	7 x 0.0886	0.96	0.2658	892	745.9	146.1	21000	0.0215	0.0266
Puffin/TW	795	0.6244	0.6919	10	2	18	7 x 0.1108	0.98	0.3324	975.3	746.9	228.4	25900	0.0215	0.0264
Condor/TW	795	0.6244	0.7053	13	2	20	7 x 0.1203	0.993	0.3639	1021	747.2	273.8	28200	0.0214	0.0264
Drake/TW	795	0.6244	0.7261	16	2	20	7 x 0.1360	1.01	0.408	1092	747.8	344.2	31800	0.0213	0.0263
Phoenix/TW	954	0.7493	0.7876	5	3	30	7 x 0.0837	1.044	0.2511	1032	901.6	130.4	23700	0.0181	0.0224
Rail/TW	954	0.7493	0.8011	7	3	32	7 x 0.0971	1.061	0.2913	1075	900	175	25900	0.018	0.0224
Cardinal/TW	954	0.7493	0.8464	13	2	20	7 x 0.1329	1.084	0.3987	1226	897.3	328.7	33500	0.0178	0.0221
Snowbird/TW	1033.5	0.8117	0.8534	5	3	30	7 x 0.0871	1.089	0.2613	1115	973.8	141.2	25700	0.0167	0.0208
Ortolan/TW	1033.5	0.8117	0.8678	7	3	32	7 x 0.1010	1.102	0.303	1165	975.2	189.8	28100	0.0167	0.0207
Curlew/TW	1033.5	0.8117	0.9169	13	2	20	7 x 0.1383	1.129	0.4149	1327	971.1	355.9	36300	0.0165	0.0204
Avocet/TW	1113	0.8742	0.9191	5	3	30	7 x 0.0904	1.129	0.2712	1201	1048.9	152.1	27500	0.0155	0.0193
Bluejay/TW	1113	0.8742	0.9347	7	3	33	7 x 0.1049	1.143	0.3147	1257	1052.2	204.8	30300	0.0155	0.0193

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		Alum	Total			Al	Steel N° x in.	Conductor	Steel Core	Total	Al	Steel		R _{dc} at 20°C	R _{ac} at 75°C
Finch/TW	1113	0.8742	0.9851	13	3	38	19 x 0.0862	1.185	0.431	1429	1052.6	376.4	39100	0.0154	0.0191
Oxbird/TW	1192.5	0.9366	0.9848	5	2	30	7 x 0.0936	1.167	0.2808	1286	1123	163	29500	0.0144	0.018
Bunting/TW	1192.5	0.9366	1.0013	7	3	33	7 x 0.1085	1.181	0.3255	1343	1124	219	32400	0.0144	0.0181
Grackel/TW	1192.5	0.9366	1.0554	13	3	38	19 x 0.0892	1.225	0.446	1530	1127	403	41900	0.0144	0.0179
Scissortail/TW	1272	0.9991	1.0505	5	3	30	7 x 0.0967	1.203	0.2901	1372	1198	174	31400	0.0135	0.017
Bittern/TW	1272	0.999	1.0681	7	3	35	7 x 0.1121	1.22	0.3363	1433	1198	234	34600	0.0135	0.017
Pheasant/TW	1272	0.999	1.1256	13	3	39	19 x 0.9210	1.264	0.4605	1632	1202	430	44100	0.0135	0.0168
Dipper/TW	1351	1.0615	1.1348	7	3	35	7 x 0.1155	1.256	0.3465	1522	1274	248	36700	0.0127	0.016
Martin/TW	1351	1.0615	1.1959	13	3	39	19 x 0.0949	1.3	0.4745	1734	1278	456	46800	0.0127	0.0159
Bobolink/TW	1431	1.1236	1.2017	7	3	36	7 x 0.1189	1.291	0.3567	1613	1350	263	38900	0.012	0.0152
Plover/TW	1431	1.1239	1.2664	13	3	37	19 x 0.0977	1.337	0.4885	1836	1353	483	49600	0.012	0.015
Lapwing/TW	1590	1.2488	1.3351	7	3	36	7 x 0.1253	1.358	0.3759	1791	1499	292	42200	0.01094	0.0138
Falcon/TW	1590	1.2488	1.4071	13	3	42	19 x 0.1030	1.408	0.515	2040	1503	537	55100	0.0108	0.0136
Chukar/TW	1780	1.3986	1.512	8	3	37	19 x 0.0874	1.445	0.437	2063	1676	387	50700	0.0096	0.0124
Bluebird/TW	2156	1.0934	1.8312	8	4	64	19 x 0.0961	1.608	0.4805	2515	2047	468	61100	0.008	0.0105

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Finch/TW	1113	0.8742	0.9851	13	3	38	19 x 0.0862	1.185	0.431	1429	1052.6	376.4	39100	0.0154	0.0191
Oxbird/TW	1192.5	0.9366	0.9848	5	2	30	7 x 0.0936	1.167	0.2808	1286	1123	163	29500	0.0144	0.018
Bunting/TW	1192.5	0.9366	1.0013	7	3	33	7 x 0.1085	1.181	0.3255	1343	1124	219	32400	0.0144	0.0181
Grackel/TW	1192.5	0.9366	1.0554	13	3	38	19 x 0.0892	1.225	0.446	1530	1127	403	41900	0.0144	0.0179
Scissortail/TW	1272	0.9991	1.0505	5	3	30	7 x 0.0967	1.203	0.2901	1372	1198	174	31400	0.0135	0.017
Bittern/TW	1272	0.999	1.0681	7	3	35	7 x 0.1121	1.22	0.3363	1433	1198	234	34600	0.0135	0.017
Pheasant/TW	1272	0.999	1.1256	13	3	39	19 x 0.9210	1.264	0.4605	1632	1202	430	44100	0.0135	0.0168
Dipper/TW	1351	1.0615	1.1348	7	3	35	7 x 0.1155	1.256	0.3465	1522	1274	248	36700	0.0127	0.016
Martin/TW	1351	1.0615	1.1959	13	3	39	19 x 0.0949	1.3	0.4745	1734	1278	456	46800	0.0127	0.0159
Bobolink/TW	1431	1.1236	1.2017	7	3	36	7 x 0.1189	1.291	0.3567	1613	1350	263	38900	0.012	0.0152
Plover/TW	1431	1.1239	1.2664	13	3	37	19 x 0.0977	1.337	0.4885	1836	1353	483	49600	0.012	0.015
Lapwing/TW	1590	1.2488	1.3351	7	3	36	7 x 0.1253	1.358	0.3759	1791	1499	292	42200	0.0183	0.0138
Falcon/TW	1590	1.2488	1.4071	13	3	42	19 x 0.1030	1.408	0.515	2040	1503	537	55100	0.0108	0.0136
Chukar/TW	1780	1.3986	1.512	8	3	37	19 x 0.0874	1.445	0.437	2063	1676	387	50700	0.0096	0.0124
Bluebird/TW	2156	1.0934	1.8312	8	4	64	19 x 0.0961	1.608	0.4805	2515	2047	468	61100	0.008	0.0105

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		Alum	Total			Al	Steel N° x in.	Conductor	Steel Core	Total	Al	Steel		R _{dc} at 20°C	R _{ac} at 75°C
Thames/TW	1334.6	1.348	1.1809	13	3	39	19 x 0.0944	1.29	0.472	1713	1261.6	451.4	46300	0.0128	0.016
St.Croix/TW	1467.8	1.1529	1.2124	5	3	33	7 x 0.1041	1.292	0.3123	1585	1383	202	35800	0.0117	0.0149
Miramichi/TW	1455.3	1.143	1.2222	7	3	36	7 x 0.1200	1.302	0.36	1640	1372	268	39200	0.0118	0.015
Merrimack/TW	1433.6	1.125	1.2677	13	3	39	19 x 0.0978	1.34	0.489	1840	1356	434	49700	0.0119	0.015
Platte/TW	1569	1.2323	1.2957	5	3	33	7 x 0.1074	1.334	0.3222	1693	1478	215	38200	0.011	0.014
Potomac/TW	1557.4	1.2232	1.3079	7	3	36	7 x 0.1241	1.345	0.3723	1755	1468	287	41900	0.0111	0.014
RioGrande/TW	1533.3	1.2043	1.3571	13	3	39	19 x 0.1012	1.382	0.506	1968	1449	519	53200	0.0112	0.0141
Schuykill/TW	1657.4	1.302	1.392	7	3	36	7 x 0.1280	1.386	0.384	1868	1563	305	44000	0.0104	0.0133
Pecos/TW	1622	1.2739	1.4429	13	3	39	19 x 0.1064	1.424	0.532	2107	1533	574	57500	0.0106	0.0133
PeeDee/TW	1758.6	1.381	1.477	7	3	37	7 x 0.1319	1.427	0.3957	1982	1658	324	46700	0.0098	0.0126
James/TW	1730.6	1.359	1.5314	13	3	34	19 x 0.1075	1.47	0.5375	2221	1636	585	59400	0.0099	0.0126
Athabaska/TW	1949.6	1.5312	1.6377	7	3	42	7 x 0.1392	1.504	0.4176	2199	1838	361	51900	0.0088	0.0115
Cumberland/TW	1926.9	1.5134	1.7049	13	3	42	19 x 0.1133	1.545	0.5665	2471	1821	650	65300	0.0089	0.0114
Powder/TW	2153.8	1.6912	1.829	8	4	64	19 x 0.0961	1.602	0.4805	2498	2030	468	61100	0.008	0.0105
Santee/TW	2627.3	2.063	2.2268	8	4	64	19 x 0.1062	1.762	0.531	3048	2477	571	74500	0.0066	0.0089

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