



CONDUCTOR DATA SHEET

Aluminum Conductors Steel Reinforced-Trapezoidal (ACSR/TW)



Area Equal to Standard ACSR Sizes

Metric units

Code	Size kcmil	Sectional area mm ²		Conductor Type	No. of Al. layers	Stranding		Diameter (mm.)		Weight kg/km			Rated Strength kN	Resistance Ω/km	
		Alum	Total			Al	Steel N° x mm	Conductor	Steel Core	Total	Al	Steel		R _{dc} at 20°C	R _{ac} at 75°C
Merlin/TW	336.4	170.5	179.9	6	2	14	1 x 3.472	16.00	3.47	543	469	74	38.08	0.1673	0.2051
Flicker/TW	477	241.7	273.1	13	2	18	7 x 2.388	19.71	7.16	912	667	245	76.51	0.1171	0.1434
Hawk/TW	477	241.7	281.0	16	2	18	7 x 2.675	20.04	8.02	975	668	307	86.30	0.1168	0.1427
Parakeet/TW	556.5	282.0	318.5	13	2	18	7 x 2.578	21.21	7.73	1064	779	285	88.96	0.1004	0.1230
Dove/TW	556.5	282.0	327.9	16	2	20	7 x 2.891	21.64	8.67	1138	779	359	100.53	0.1001	0.1227
Swift/TW	636	322.3	331.2	3	3	27	1 x 3.376	21.59	3.38	961	892	70	60.05	0.0892	0.1099
Rook/TW	636	322.3	364.1	13	2	19	7 x 2.756	22.61	8.27	1214	890	326	101.86	0.0879	0.1079
Grosbeak/TW	636	322.3	374.7	16	2	20	7 x 3.089	23.06	9.27	1300	890	409	112.98	0.0876	0.1073
Tem/TW	795	402.8	430.6	7	2	17	7 x 2.250	24.38	6.75	1327	1110	217	93.41	0.0705	0.0873
Puffin/TW	795	402.8	446.4	10	2	18	7 x 2.814	24.89	8.44	1451	1111	340	115.21	0.0705	0.0866
Condor/TW	795	402.8	455.0	13	2	20	7 x 3.056	25.22	9.24	1519	1112	407	125.44	0.0702	0.0866
Drake/TW	795	402.8	468.5	16	2	20	7 x 3.454	25.65	10.36	1625	1113	512	141.45	0.0699	0.0863
Phoenix/TW	954	483.4	508.1	5	3	30	7 x 2.126	26.52	6.38	1536	1342	194	105.42	0.0594	0.0735
Rail/TW	954	483.4	516.8	7	3	32	7 x 2.466	26.95	7.40	1600	1339	260	115.21	0.0591	0.0735
Cardinal/TW	954	483.4	546.1	13	2	20	7 x 3.376	27.53	10.13	1824	1335	489	149.02	0.0584	0.0725
Snowbird/TW	1033.5	523.7	550.6	5	3	30	7 x 2.212	27.66	6.64	1659	1449	210	114.32	0.0548	0.0682
Ortolan/TW	1033.5	523.7	559.9	7	3	32	7 x 2.565	27.99	7.70	1734	1451	282	125.00	0.0548	0.0679
Curlew/TW	1033.5	523.7	591.5	13	2	20	7 x 3.513	28.68	10.54	1975	1445	530	161.47	0.0541	0.0669
Avocet/TW	1113	564.0	593.0	5	3	30	7 x 2.296	28.68	6.89	1787	1561	226	122.33	0.0509	0.0633
Bluejay/TW	1113	564.0	603.0	7	3	33	7 x 2.664	29.03	7.99	1870	1566	305	134.78	0.0509	0.0633

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		Alum	Total			Al	Steel N° x mm	Conductor	Steel Core	Total	Al	Steel		R _{dc} at 20°C	R _{ac} at 75°C
Finch/TW	1113	564.0	635.5	13	3	38	19 x 2.189	30.10	10.95	2126	1566	560	173.93	0.0505	0.0627
Oxbird/TW	1192.5	604.3	635.4	5	2	30	7 x 2.377	29.64	7.13	1914	1671	243	131.22	0.0472	0.0591
Bunting/TW	1192.5	604.3	646.0	7	3	33	7 x 2.756	30.00	8.27	1998	1673	326	144.12	0.0472	0.0594
Grackel/TW	1192.5	604.3	680.9	13	3	38	19 x 2.266	31.12	11.33	2277	1677	600	186.38	0.0472	0.0587
Scissortail/TW	1272	644.6	677.7	5	3	30	7 x 2.456	30.56	7.37	2042	1783	259	139.67	0.0443	0.0558
Bittern/TW	1272	644.5	689.1	7	3	35	7 x 2.847	30.99	8.54	2132	1783	348	153.91	0.0443	0.0558
Pheasant/TW	1272	644.5	726.2	13	3	39	19 x 2.393	32.11	11.70	2428	1789	640	196.17	0.0443	0.0551
Dipper/TW	1351	684.8	732.1	7	3	35	7 x 2.934	31.90	8.80	2265	1896	369	163.25	0.0417	0.0525
Martin/TW	1351	684.8	771.5	13	3	39	19 x 2.410	33.02	12.05	2580	1902	679	208.18	0.0417	0.0522
Bobolink/TW	1431	724.9	775.3	7	3	36	7 x 3.020	32.79	9.06	2400	2009	391	173.04	0.0394	0.0499
Plover/TW	1431	725.1	817.0	13	3	37	19 x 2.482	33.96	12.41	2732	2013	719	220.63	0.0394	0.0492
Lapwing/TW	1590	805.7	861.4	7	3	36	7 x 3.183	34.49	9.55	2665	2231	434	187.71	0.0600	0.0453
Falcon/TW	1590	805.7	907.8	13	3	42	19 x 2.616	35.76	13.08	3036	2236	799	245.10	0.0354	0.0446
Chukar/TW	1780	902.3	975.5	8	3	37	19 x 2.220	36.70	11.10	3070	2494	576	225.52	0.0315	0.0407
Bluebird/TW	2156	705.4	1181.4	8	4	64	19 x 2.441	40.84	12.20	3742	3046	696	271.79	0.0262	0.0344

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		Alum	Total			Al	Steel N ^o x mm	Conductor	Steel Core	Total	Al	Steel		R _{dc} at 20°C	R _{ac} at 75°C
Monongahela/TW	405.1	205.2	216.9	6	2	14	1 x 3.861	17.27	3.86	656	565	91	45.37	0.1388	0.1703
Mohawk/TW	571.7	289.7	327.4	13	2	18	7 x 2.616	21.49	7.85	1093	800	294	92.08	0.0978	0.1198
Calumet/TW	565.3	286.4	333.2	16	2	18	7 x 2.913	21.79	8.73	1064	778	285	101.86	0.0984	0.1207
Mystic/TW	666.6	337.8	381.5	13	2	20	7 x 2.822	23.19	8.46	1274	932	342	106.76	0.0837	0.1030
Oswego/TW	664.8	336.8	391.7	16	2	20	7 x 3.160	23.55	9.48	1359	931	429	118.32	0.0837	0.1027
Nechako/TW	768.9	389.6	401.3	3	3	27	1 x 3.861	23.62	3.86	1163	1072	91	72.95	0.0837	0.0912
Maumee/TW	768.2	389.3	439.9	13	2	20	7 x 3.035	24.82	9.11	1470	1074	395	123.22	0.0728	0.0896
Wabash/TW	762.8	386.6	449.4	16	2	20	7 x 3.381	25.15	10.14	1558	1067	491	135.67	0.0728	0.0899
Kettle/TW	957.2	485.0	518.6	7	3	32	7 x 2.471	26.92	7.41	1606	1343	262	115.65	0.0591	0.0732
Fraser/TW	946.7	479.7	527.0	10	3	35	7 x 2.931	27.36	8.79	1699	1330	369	131.67	0.0591	0.0732
Columbia/TW	966.2	489.6	553.1	13	2	21	7 x 3.399	27.74	10.20	1847	1351	496	151.24	0.0577	0.0715
Suwannee/TW	959.6	486.3	565.3	16	2	22	7 x 3.792	28.14	11.38	1961	1344	618	164.58	0.0581	0.0715
Cheyenne/TW	1168.1	591.9	622.3	5	3	30	7 x 2.352	29.34	7.06	1875	1637	237	128.55	0.0486	0.0607
Genesee/TW	1158	586.8	627.9	7	3	33	7 x 2.738	29.59	8.21	1946	1625	321	140.56	0.0489	0.0610
Hudson/TW	1158.4	587.0	663.3	13	2	26	7 x 3.726	30.38	11.18	2216	1620	595	176.15	0.0482	0.0600
Catawba/TW	1272	644.6	677.7	5	3	30	7 x 2.456	30.56	7.37	2042	1783	259	139.67	0.0443	0.0558
Nelson/TW	1257.1	637.0	681.1	7	3	35	7 x 2.832	30.81	8.50	2108	1764	344	152.13	0.0449	0.0564
Yukon/TW	1233.6	625.1	704.8	13	3	38	19 x 2.311	31.62	11.56	2360	1736	624	190.83	0.0456	0.0568
Truckee/TW	1372.5	695.5	731.2	5	3	30	7 x 2.550	31.70	7.65	2204	1925	279	148.57	0.0413	0.0522
Mackenzie/TW	1359.7	689.0	736.6	7	3	36	7 x 3.960	31.98	8.83	2277	1905	372	164.14	0.0417	0.0522

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		Alum	Total			Al	Steel N° x mm	Conductor	Steel Core	Total	Al	Steel	R _{dc} at 20°C		R _{ac} at 75°C	
Thames/TW	1334.6	869.7	761.9	13	3	39	19 x	2.398	32.77	11.99	2549	1877	672	205.95	0.0420	0.0525
St.Croix/TW	1467.8	743.8	782.2	5	3	33	7 x	2.644	32.82	7.93	2358	2058	301	159.25	0.0384	0.0489
Miramichi/TW	1455.3	737.4	788.5	7	3	36	7 x	3.048	33.07	9.14	2440	2042	399	174.37	0.0387	0.0492
Merrimack/TW	1433.6	725.8	817.9	13	3	39	19 x	2.484	34.04	12.42	2738	2018	646	221.08	0.0390	0.0492
Platte/TW	1569	795.0	835.9	5	3	33	7 x	2.728	33.88	8.18	2519	2199	320	169.92	0.0361	0.0459
Potomac/TW	1557.4	789.2	843.8	7	3	36	7 x	3.152	34.16	9.46	2611	2184	427	186.38	0.0364	0.0459
RioGrande/TW	1533.3	777.0	875.5	13	3	39	19 x	2.570	35.10	12.85	2928	2156	772	236.65	0.0367	0.0463
Schuykill/TW	1657.4	840.0	898.1	7	3	36	7 x	3.251	35.20	9.75	2780	2326	454	195.72	0.0341	0.0436
Pecos/TW	1622	821.9	930.9	13	3	39	19 x	2.703	36.17	13.51	3135	2281	854	255.77	0.0348	0.0436
PeeDee/TW	1758.6	891.0	952.9	7	3	37	7 x	3.350	36.25	10.05	2949	2467	482	207.73	0.0322	0.0413
James/TW	1730.6	876.8	988.0	13	3	34	19 x	2.731	37.34	13.65	3305	2434	870	264.22	0.0325	0.0413
Athabaska/TW	1949.6	987.9	1056.6	7	3	42	7 x	3.536	38.20	10.61	3272	2735	537	230.86	0.0289	0.0377
Cumberland/TW	1926.9	976.4	1099.9	13	3	42	19 x	2.878	39.24	14.39	3677	2710	967	290.47	0.0292	0.0374
Powder/TW	2153.8	1091.1	1180.0	8	4	64	19 x	2.441	40.69	12.20	3717	3021	696	271.79	0.0262	0.0344
Santee/TW	2627.3	1331.0	1436.6	8	4	64	19 x	2.697	44.75	13.49	4535	3686	850	331.39	0.0217	0.0292

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