



CONDUCTOR DATA SHEET

Aluminum Conductors Steel Supported-Trapezoidal (ACSS/TW)



ACSS/TW (Area Equal to Standard ACSR Sizes)

Metric units

Code Word	Size (kcmil)	Cross Sectional Area mm ²		Type No.	Stranding			Diameter (mm)		Weight (kg/km)			Rated Breaking strength (kN)		Resistance Ω/km	
		Alum.	Total		No. of Layers of Alum.	No. of Alum. Wires	No. & Dia. Individual Steel Wire	Complete Cable	Steel core	Total	Alum.	steel	Standard Strength	High Strength	R _{dc} at 20°C	R _{ac} at 75°C
Flicker/ACSS/TW	477.0	241.7	273.1	13	2	18	7 x 2.388	19.71	7.16	912	667	245	57.83	63.16	0.1160	0.1423
Hawk/ACSS/TW	477.0	241.7	281.0	16	2	18	7 x 2.675	20.04	8.02	975	668	307	69.39	76.06	0.1153	0.1420
Parakeet/ACSS/TW	556.5	282.0	318.5	13	2	18	7 x 2.578	21.21	7.73	1064	779	285	67.61	73.84	0.0990	0.1220
Dove/ACSS/TW	556.5	282.0	327.9	16	2	20	7 x 2.891	21.64	8.67	1138	779	359	80.96	88.52	0.0987	0.1217
Rook/ACSS/TW	636.0	322.3	364.1	13	2	20	7 x 2.756	22.61	8.27	1214	890	326	76.95	84.52	0.0867	0.1070
Grosbeak/ACSS/TW	636.0	322.3	374.7	16	2	20	7 x 3.089	23.06	9.27	1300	890	409	92.08	99.64	0.0863	0.1067
Tern/ACSS/TW	795.0	402.8	430.6	7	2	17	7 x 2.250	24.38	6.75	1327	1110	217	63.16	67.61	0.0697	0.0867
Puffin/ACSS/TW	795.0	402.8	446.4	10	2	18	7 x 2.814	24.89	8.44	1451	1111	340	84.07	91.63	0.0697	0.0863
Condor/ACSS/TW	795.0	402.8	455.0	13	2	20	7 x 3.081	25.22	9.24	1519	1112	407	96.53	103.64	0.0693	0.0860
Drake/ACSS/TW	795.0	402.8	468.5	16	2	20	7 x 3.454	25.65	10.36	1625	1113	512	115.21	124.55	0.0690	0.0857
Phoenix/ACSS/TW	954.0	483.4	508.1	5	3	30	7 x 2.126	26.52	6.38	1536	1342	194	63.16	67.61	0.0587	0.0730
Rail/ACSS/TW	954.0	483.4	516.8	7	3	32	7 x 2.466	26.95	7.40	1600	1339	260	74.29	80.07	0.0583	0.0730
Cardinal/ACSS/TW	954.0	483.4	546.1	13	2	20	7 x 3.376	27.53	10.13	1824	1335	489	115.65	124.55	0.0577	0.0720
Snowbird/ACSS/TW	1033.5	523.7	550.6	5	3	30	7 x 2.212	27.66	6.64	1659	1449	210	68.50	72.95	0.0540	0.0677
Ortolan/ACSS/TW	1033.5	523.7	559.9	7	3	32	7 x 2.565	27.99	7.70	1734	1451	282	80.51	86.74	0.0540	0.0673
Curlew/ACSS/TW	1033.5	523.7	591.5	13	2	20	7 x 3.513	28.68	10.54	1975	1445	530	125.44	134.78	0.0533	0.0663
Avocet/ACSS/TW	1113.0	564.0	593.0	5	3	30	7 x 2.296	28.68	6.89	1787	1561	226	72.51	77.84	0.0500	0.0630

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		Alum.	Total		No. of Layers of Alum.	No. of Alum. Wires	No. & Dia. Individual Steel Wire	Complete Cable	Steel core	Total	Alum.	steel	Standard Strength	High Strength	R _{dc} at 20°C	R _{ac} at 75°C
Bluejay/ACSS/TW	1113.0	564.0	603.0	7	3	33	7 x 2.664	29.03	7.99	1870	1566	305	86.74	93.41	0.0500	0.0630
Finch/ACSS/TW	1113.0	564.0	635.5	13	3	38	19 x 2.189	30.10	10.95	2126	1566	560	135.23	147.68	0.0497	0.0623
Oxbird/ACSS/TW	1192.5	604.3	635.4	5	3	30	7 x 2.377	29.64	7.13	1914	1671	243	77.84	83.18	0.0467	0.0590
Bunting/ACSS/TW	1192.5	604.3	646.0	7	3	33	7 x 2.756	30.00	8.27	1998	1673	326	92.97	100.09	0.0467	0.0590
Grackle/ACSS/TW	1192.5	604.3	680.9	13	3	38	19 x 2.266	31.12	11.33	2277	1677	600	145.01	157.91	0.0467	0.0583
Scissortail/ACSS/T	1272.0	644.6	677.7	5	3	30	7 x 2.456	30.56	7.37	2042	1783	259	83.18	88.96	0.0440	0.0557
Bittern/ACSS/TW	1272.0	644.5	689.1	7	3	35	7 x 2.847	30.99	8.54	2132	1784	348	99.20	106.76	0.0437	0.0553
Pheasant/ACSS/TW	1272.0	644.5	726.2	13	3	39	19 x 2.339	32.11	11.70	2428	1789	640	151.68	165.92	0.0437	0.0547
Dipper/ACSS/TW	1351.5	684.8	732.1	7	3	35	7 x 2.934	31.90	8.80	2265	1896	369	105.42	113.43	0.0413	0.0523
Martin/ACSS/TW	1351.5	684.8	771.5	13	3	39	19 x 2.410	33.02	12.05	2580	1902	679	161.03	176.15	0.0410	0.0517
Bobolink/ACSS/TW	1431.0	724.9	775.3	7	3	36	7 x 3.020	32.79	9.06	2400	2009	391	111.65	120.10	0.0390	0.0497
Plover/ACSS/TW	1431.0	725.1	817.0	13	3	37	19 x 2.482	33.96	12.41	2732	2013	719	170.81	186.38	0.0387	0.0490
Lapwing/ACSS/TW	1590.0	805.7	861.4	7	3	36	7 x 3.183	34.49	9.55	2665	2231	434	124.11	131.67	0.0350	0.0450
Falcon/ACSS/TW	1590.0	805.7	907.8	13	3	42	19 x 2.616	35.76	13.08	3036	2236	799	189.49	207.29	0.0350	0.0443
Chukar/ACSS/TW	1780.0	902.3	975.5	8	3	37	19 x 2.220	36.70	11.10	3070	2494	576	157.02	169.92	0.0313	0.0403
Bluebird/ACSS/TW	2156.0	705.4	1182.0	8	4	64	19 x 2.441	40.84	12.20	3742	3046	696	187.27	202.39	0.2600	0.0343

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		Alum.	Total		No. of Layers of Alum.	No. of Alum. Wires	No. & Dia. Individual Steel Wire	Complete Cable	Steel core	Total	Alum.	steel	Standard Strength	High Strength	R _{dc} at 20°C	R _{ac} at 75°C
Mohawk/ACSS/TW	571.7	289.7	327.4	13	2	18	7 x 2.616	21.49	7.85	1093	800	294	69.39	76.06	0.0963	0.1190
Calumet/ACSS/TW	565.3	286.4	333.2	16	2	20	7 x 2.911	21.84	8.73	1154	790	364	81.85	89.85	0.0973	0.1197
Mystic/ACSS/TW	666.6	337.8	381.5	13	2	20	7 x 2.822	23.19	8.46	1274	932	342	80.96	88.52	0.0827	0.1023
Oswego/ACSS/TW	664.8	336.8	391.7	16	2	20	7 x 3.160	23.55	9.48	1359	931	429	96.53	104.09	0.0827	0.1020
Maumee/ACSS/TW	768.2	389.3	439.9	13	2	20	7 x 3.035	24.82	9.11	1470	1074	395	93.41	102.31	0.0717	0.0887
Wabash/ACSS/TW	762.8	386.6	449.4	16	2	20	7 x 3.381	25.15	10.14	1558	1067	491	110.76	119.21	0.0720	0.0890
Kettle/ACSS/TW	957.2	485.0	518.6	7	3	32	7 x 2.471	26.92	7.41	1606	1343	262	74.73	80.51	0.0583	0.0727
Fraser/ACSS/TW	946.7	479.7	527.0	10	3	35	7 x 2.921	27.36	8.79	1699	1330	369	93.86	101.86	0.0587	0.0733
Columbia/ACSS/TW	966.2	489.6	553.1	13	2	21	7 x 3.399	27.74	10.20	1847	1351	496	117.43	125.88	0.0593	0.0710
Suwannee/ACSS/TW	959.6	486.3	565.3	16	2	22	7 x 3.792	28.14	11.38	1961	1344	618	136.56	147.24	0.0573	0.0710
Cheyenne/ACSS/TW	1168.1	591.9	622.3	5	2	30	7 x 2.352	29.34	7.06	1875	1637	237	76.51	81.40	0.0477	0.0603
Genesee/ACSS/TW	1158.0	586.8	627.9	7	3	33	7 x 2.738	29.59	8.21	1946	1625	321	91.19	98.31	0.0480	0.0607
Hudson/ACSS/TW	1158.4	587.0	663.3	13	3	26	7 x 3.726	30.38	11.18	2216	1620	595	138.34	149.02	0.0477	0.0597
Catawba/ACSS/TW	1272.0	644.6	677.7	5	2	30	7 x 2.456	30.56	7.37	2042	1783	259	83.18	88.96	0.0440	0.0557
Nelson/ACSS/TW	1257.1	637.0	681.1	7	3	35	7 x 2.832	30.81	8.50	2108	1764	344	98.31	105.87	0.0443	0.0560
Yukon/ACSS/TW	1233.6	625.1	704.8	13	3	38	19 x 23.114	31.62	11.56	2360	1736	624	147.68	161.47	0.0450	0.0563
Truckee/ACSS/TW	1372.5	695.5	731.2	5	3	30	7 x 2.550	31.70	7.65	2204	1925	279	89.85	95.64	0.0407	0.0517
Mackenzie/ACSS/TW	1359.7	689.0	736.6	7	3	36	7 x 2.944	31.98	8.83	2277	1905	372	106.31	114.32	0.0410	0.0520

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		Alum.	Total		No. of Layers of Alum.	No. of Alum. Wires	No. & Dia. Individual Steel Wire	Complete Cable	Steel core	Total	Alum.	steel	Standard Strength	High Strength	R _{dc} at 20°C	R _{ac} at 75°C
Thames/ACSS/TW	1334.6	676.1	761.9	13	3	39	19 x 2.398	32.77	11.99	2549	1877	672	159.25	173.93	0.0417	0.0523
St.Croix/ACSS/TW	1467.8	743.8	782.2	5	3	33	7 x 2.644	32.82	7.93	2358	2058	301	96.08	102.75	0.0380	0.0487
Miramichi/ACSS/TW	1455.3	737.4	788.4	7	3	36	7 x 3.048	33.07	9.14	2440	2042	399	113.87	120.55	0.0383	0.0487
Merrimack/ACSS/TW	1433.6	725.8	817.9	13	3	39	19 x 2.484	34.04	12.42	2738	2018	646	170.81	186.83	0.0387	0.0490
Platte/ACSS/TW	1569.0	795.0	835.9	5	3	33	7 x 2.728	33.88	8.18	2519	2199	320	102.75	109.43	0.0357	0.0457
Potomac/ACSS/TW	1557.4	789.2	843.8	7	3	36	7 x 3.152	34.16	9.46	2611	2184	427	121.44	129.00	0.0357	0.0460
Rio	1533.3	777.0	875.5	13	3	39	19 x 2.570	35.10	12.85	2928	2156	772	183.27	200.17	0.0363	0.0460
Schuykill/ACSS/TW	1657.4	840.0	898.1	7	3	36	7 x 3.251	35.20	9.75	2780	2326	454	129.44	137.45	0.0337	0.0433
Pecos/ACSS/TW	1622.0	821.9	930.9	13	3	39	19 x 2.703	36.17	13.51	3135	2281	854	200.17	219.30	0.0340	0.0433
Pee Dee/ACSS/TW	1758.6	891.0	952.9	7	3	37	7 x 3.350	36.25	10.05	2949	2467	482	137.45	145.90	0.0317	0.0410
James/ACSS/TW	1730.6	876.8	988.0	13	3	34	19 x 2.731	37.34	13.65	3305	2434	870	206.40	225.97	0.0320	0.0410
Athabaska/ACSS/TW	1949.6	987.9	1056.6	7	3	42	7 x 3.536	38.20	10.61	3272	2735	537	152.57	162.36	0.0287	0.0373
Cumberland/ACSS/T	1926.9	976.4	1099.9	13	3	42	19 x 2.878	39.24	14.39	3677	2710	967	229.53	250.88	0.0357	0.0450
Powder/ACSS/TW	2153.8	1091.1	1180.0	8	4	64	19 x 2.441	40.69	12.20	3717	3021	696	187.27	202.39	0.0260	0.0343
Santee/ACSS/TW	2627.3	1331.0	1436.6	8	4	64	19 x 2.697	44.75	13.49	4535	3686	850	228.19	247.32	0.0213	0.0290

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