

Aluminium Conductor Steel Supported (ACSS/TW - AW(X))

ACSS/TW (AW2 & AW3 (ASTM B857))																			
Code Name	Strands No.		Diameter (mm)			Area (mm ²)			Weight of Conductor (kg/km)			Rated Strength (kN)		Resistance (Ω/km)			Coefficient of Linear Expansion *10 ⁻⁶ (1/°C)	Modulus of Elasticity (final) (kg/mm ²)	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total	AW2	AW3	DC at 20 °C	AC at 25 °C	AC at 75 °C			
Partridge	18	7	3.092	2.002	14.732	135.19	22.02	157.21	373.91	145.72	519.63	37.36	39.59	0.2001	0.2042	0.2452	19.89	7292.20	23.10
Oriole	17	7	3.573	2.690	17.526	170.45	39.78	210.23	473.76	263.18	736.94	63.16	65.83	0.1559	0.1596	0.1916	19.05	7818.87	24.09
Flicker	18	7	4.135	2.388	19.812	241.70	31.34	273.04	667.84	207.36	875.20	55.60	57.82	0.1130	0.1159	0.1393	20.36	7020.82	22.57
Hawk	18	7	4.135	2.675	20.066	241.70	39.33	281.02	668.50	260.21	928.70	66.28	69.39	0.1119	0.1148	0.1379	19.89	7290.63	23.10
Hen	17	7	4.255	3.203	21.082	241.70	56.40	298.10	671.77	373.16	1044.92	89.40	91.18	0.1100	0.1132	0.1354	19.05	7818.78	24.09
Parakeet	18	7	4.466	2.578	21.336	281.98	36.54	318.52	779.15	241.77	1020.92	64.94	67.61	0.0969	0.0997	0.1198	20.36	7020.14	22.57
Dove	20	7	4.237	2.891	21.590	281.98	45.93	327.91	779.91	303.91	1083.82	77.84	80.95	0.0959	0.0987	0.1186	19.89	7292.06	23.10
Calumet	20	7	4.270	2.911	21.844	286.44	46.58	333.02	792.25	308.20	1100.45	78.73	81.84	0.0944	0.0976	0.1167	19.89	7289.89	23.09
Mohawk	18	7	4.527	2.616	21.590	289.68	37.63	327.31	800.43	248.96	1049.40	66.72	69.39	0.0943	0.0974	0.1166	20.36	7022.75	22.57
Rook	18	7	4.775	2.756	22.606	322.26	41.75	364.02	890.46	276.26	1166.72	74.28	76.95	0.0848	0.0876	0.1052	20.36	7019.98	22.57
Grosbeak	20	7	4.530	3.089	23.114	322.26	52.45	374.71	891.33	347.00	1238.33	88.52	90.29	0.0839	0.0867	0.1042	19.89	7290.84	23.10
Oswego	20	7	4.631	3.160	23.622	336.85	54.89	391.74	931.69	363.16	1294.86	92.96	94.74	0.0803	0.0834	0.1001	19.89	7292.44	23.10
Mystic	20	7	4.637	2.822	23.114	337.77	43.78	381.55	933.30	289.66	1222.96	77.84	80.95	0.0809	0.0840	0.1004	20.36	7020.38	22.57
Wabash	20	7	4.961	3.381	25.146	386.51	62.83	449.35	1069.04	415.74	1484.77	104.08	108.53	0.0700	0.0731	0.0873	19.89	7289.46	23.09
Maumee	20	7	4.978	3.035	24.892	389.25	50.65	439.90	1075.55	335.12	1410.67	89.85	93.41	0.0702	0.0733	0.0875	20.36	7024.65	22.58
Tern	17	7	5.493	2.250	24.384	402.83	27.84	430.67	1111.44	184.22	1295.66	60.05	63.16	0.0690	0.0721	0.0867	21.40	6483.24	21.49
Puffin	18	7	5.338	2.814	24.892	402.83	43.54	446.37	1112.53	288.10	1400.63	81.40	84.07	0.0682	0.0713	0.0857	20.70	6836.03	22.20
Condor	20	7	5.064	3.081	25.146	402.83	52.19	455.01	1113.07	345.29	1458.36	92.96	94.74	0.0678	0.0708	0.0851	20.36	7019.86	22.57
Drake	20	7	5.064	3.454	25.654	402.83	65.60	468.43	1114.16	434.05	1548.21	108.53	112.98	0.0672	0.0701	0.0842	19.89	7291.73	23.10
Mallard	22	19	4.828	2.482	26.670	402.83	91.89	494.72	609.22	1119.61	1728.83	146.34	152.57	0.0661	0.0690	0.0829	19.11	7781.79	24.02
Fraser	35	7	4.177	2.931	27.432	479.69	47.23	526.93	1331.31	312.52	1643.82	90.29	93.85	0.0578	0.0608	0.0730	20.87	6751.21	22.03
Phoenix	30	7	4.530	2.126	26.670	483.39	24.85	508.24	1338.96	164.40	1503.36	60.49	63.16	0.0581	0.0611	0.0735	21.77	6314.25	21.14
Rail	32	7	4.386	2.466	26.924	483.39	33.44	516.83	1340.26	221.26	1561.52	72.06	74.28	0.0578	0.0608	0.0731	21.40	6483.82	21.49
Cardinal	20	7	5.547	3.376	27.432	483.39	62.65	546.04	1335.69	414.49	1750.18	109.42	113.42	0.0565	0.0594	0.0714	20.36	7020.23	22.57
Kettle	32	7	4.393	2.471	26.924	485.01	33.58	518.59	1344.76	222.17	1566.93	72.50	74.73	0.0576	0.0606	0.0729	21.40	6484.32	21.49
Suwannee	22	7	5.305	3.792	28.194	486.23	79.06	565.29	1344.84	523.10	1867.94	125.43	133.44	0.0556	0.0585	0.0703	19.89	7289.71	23.09
Columbia	21	7	5.448	3.399	27.686	489.57	63.50	553.07	1352.77	420.12	1772.89	110.76	115.20	0.0558	0.0592	0.0705	20.36	7021.09	22.57
Snowbird	30	7	4.714	2.212	27.686	523.67	26.91	550.58	1450.54	178.03	1628.57	65.83	68.50	0.0536	0.0569	0.0684	21.77	6314.05	21.14
Ortolan	32	7	4.565	2.565	27.940	523.67	36.18	559.86	1451.95	239.39	1691.34	78.28	80.51	0.0534	0.0566	0.0681	21.41	6482.99	21.49
Curlew	21	7	5.635	3.513	28.702	523.67	67.84	591.51	1446.99	448.85	1895.85	116.09	123.21	0.0522	0.0553	0.0665	20.36	7019.81	22.57
Avocet	30	7	4.892	2.296	28.702	563.96	28.99	592.94	1562.12	191.78	1753.89	70.72	72.50	0.0498	0.0534	0.0635	21.77	6314.18	21.14
Bluejay	33	7	4.665	2.664	28.956	563.96	39.03	602.99	1563.64	258.23	1821.88	84.07	86.74	0.0496	0.0531	0.0632	21.40	6484.07	21.49
Finch	38	19	4.347	2.189	30.226	563.96	71.53	635.49	1567.46	474.24	2041.69	128.10	135.22	0.0488	0.0522	0.0621	20.41	6997.03	22.52
Genesee	33	7	4.758	2.738	29.718	586.76	41.22	627.98	1626.86	272.71	1899.57	88.52	91.18	0.0476	0.0510	0.0613	21.38	6493.81	21.51
Hudson	25	7	5.468	3.726	30.480	586.96	76.33	663.29	1621.87	505.04	2126.90	127.66	135.66	0.0465	0.0499	0.0599	20.36	7024.00	22.58
Cheyenne	30	7	5.012	2.352	29.464	591.88	30.41	622.29	1639.45	201.23	1840.68	74.28	76.06	0.0474	0.0508	0.0611	21.77	6314.07	21.14
Oxbird	30	7	5.063	2.377	29.718	603.99	31.07	635.06	1672.99	205.60	1878.59	75.62	77.84	0.0465	0.0498	0.0599	21.76	6314.68	21.14

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	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total	AW2	AW3	DC at 20 °C	AC at 25 °C	AC at 75 °C			
Bunting	33	7	4.827	2.756	29.972	603.99	41.75	645.74	167463	276.26	1950.89	90.29	92.96	0.0463	0.0496	0.0596	21.40	6483.36	21.49
Grackle	38	19	4.499	2.266	30.988	603.99	76.60	680.59	167871	507.82	2186.53	137.00	145.00	0.0455	0.0488	0.0586	20.41	6996.87	22.52
Yukon	38	19	4.576	2.311	31.750	625.07	79.72	704.79	173730	528.52	2265.82	142.34	147.67	0.0440	0.0477	0.0566	20.39	7002.94	22.54
Nelson	35	7	4.814	2.832	30.734	636.97	44.10	681.07	176609	291.75	2057.84	95.19	98.30	0.0439	0.0475	0.0565	21.40	6484.25	21.49
Scissortail	30	7	5.230	2.456	30.480	644.52	33.17	677.69	178528	219.44	2004.71	80.95	83.18	0.0436	0.0472	0.0561	21.76	6314.79	21.14
Bittern	35	7	4.842	2.847	30.988	644.52	44.57	689.09	178702	294.90	2081.92	96.08	99.19	0.0434	0.0470	0.0558	21.40	6483.57	21.49
Pheasant	39	19	4.587	2.339	32.004	644.52	81.66	726.18	179138	541.38	2332.76	145.89	151.68	0.0427	0.0462	0.0549	20.41	6995.83	22.52
Catawba	30	7	5.230	2.456	30.480	644.52	33.17	677.69	178528	219.44	2004.71	80.95	83.18	0.0436	0.0472	0.0561	21.76	6314.79	21.14
Thames	39	19	4.699	2.398	32.766	676.24	85.79	762.03	187954	568.76	2448.29	153.46	159.24	0.0407	0.0441	0.0529	20.40	6997.22	22.52
Dipper	35	7	4.990	2.934	32.004	684.55	47.32	731.87	189801	313.06	2211.06	102.30	105.42	0.0408	0.0442	0.0532	21.40	6483.25	21.49
Martin	39	19	4.728	2.410	33.020	684.55	86.70	771.25	190263	574.80	2477.43	155.24	161.02	0.0402	0.0441	0.0523	20.41	6995.45	22.52
Mackenzi	36	7	4.936	2.944	32.004	688.96	47.64	736.60	191023	315.23	2225.46	102.75	105.86	0.0406	0.0445	0.0528	21.40	6483.57	21.49
Truckee	30	7	5.433	2.550	31.750	695.45	35.75	731.20	192633	236.55	2162.88	87.18	89.85	0.0404	0.0443	0.0526	21.77	6314.31	21.14
Bobolink	36	7	5.064	3.020	32.766	725.09	50.14	775.23	201040	331.76	2342.16	108.09	111.64	0.0385	0.0423	0.0502	21.40	6483.57	21.49
Plover	39	19	4.865	2.482	34.036	725.09	91.89	816.98	201530	609.22	2624.51	164.13	170.80	0.0379	0.0416	0.0494	20.41	6996.12	22.52
Merrimack	39	19	4.870	2.484	34.036	726.41	92.08	818.49	201896	610.46	2629.42	164.58	170.80	0.0379	0.0415	0.0493	20.41	6996.37	22.52
Miramichi	36	7	5.107	3.048	33.020	737.40	51.07	788.48	204454	337.93	2382.46	110.31	112.09	0.0379	0.0416	0.0494	21.40	6484.60	21.49
St. Croix	33	7	5.357	2.644	32.766	743.73	38.44	782.17	206008	254.31	2314.39	93.41	96.08	0.0378	0.0414	0.0498	21.76	6316.94	21.14
Rio Grande	39	19	5.036	2.570	35.052	776.92	98.60	875.52	215937	653.65	2813.02	176.14	183.26	0.0354	0.0394	0.0467	20.40	6997.56	22.52
Potomac	36	7	5.283	3.152	34.290	789.13	54.62	843.76	218797	361.41	2549.39	117.87	119.65	0.0354	0.0394	0.0467	21.40	6484.20	21.49
Platte	33	7	5.538	2.728	33.782	795.01	40.91	835.92	220212	270.69	2472.81	99.64	102.75	0.0353	0.0393	0.0466	21.76	6314.81	21.14
Lapwing	36	7	5.338	3.183	34.544	805.65	55.69	861.34	223377	368.44	2602.21	120.10	122.32	0.0347	0.0386	0.0458	21.40	6483.25	21.49
Falcon	42	19	4.942	2.616	35.814	805.65	102.13	907.79	223922	677.10	2916.33	182.81	189.48	0.0341	0.0380	0.0450	20.41	6996.44	22.52
Pecos	39	19	5.180	2.703	36.068	821.87	108.99	930.86	228429	722.54	3006.83	192.60	200.16	0.0334	0.0372	0.0447	20.32	7045.50	22.62
Schuykill	36	7	5.450	3.251	35.306	839.80	58.11	897.92	232846	384.49	2712.95	125.43	127.21	0.0333	0.0376	0.0445	21.40	6483.97	21.49
James	39	19	5.351	2.731	37.338	876.90	111.25	988.15	243723	737.56	3174.79	198.83	206.39	0.0314	0.0355	0.0420	20.40	6997.28	22.52
Pee Dee	37	7	5.538	3.350	36.322	891.08	61.71	952.79	247064	408.27	2878.91	130.77	135.22	0.0314	0.0355	0.0420	21.40	6484.47	21.49
Chukar	37	19	5.571	2.220	36.830	901.93	73.54	975.47	249704	487.53	2984.58	149.45	157.01	0.0308	0.0349	0.0412	21.17	6598.40	21.72
Cumberland	42	19	5.441	2.878	39.370	976.36	123.58	1099.94	271368	819.30	3532.98	221.07	229.52	0.0282	0.0324	0.0383	20.41	6994.77	22.52
Athabaska	42	7	5.472	3.536	38.100	987.86	68.73	1056.59	273897	454.72	3193.69	141.00	149.01	0.0283	0.0332	0.0385	21.40	6487.48	21.50
Powder	64	19	4.660	2.441	40.640	1091.33	88.91	1180.24	304651	89.44	3135.96	181.03	187.26	0.0257	0.0307	0.0355	21.17	6597.78	21.72
Bluebird	64	19	4.662	2.441	40.894	1092.45	88.91	1181.35	304963	89.44	3139.07	181.03	187.26	0.0257	0.0307	0.0355	21.17	6597.01	21.72
Santee	64	19	5.146	2.697	44.704	1331.25	108.58	1439.83	371627	109.23	3825.50	221.07	228.18	0.0210	0.0263	0.0303	21.17	6598.63	21.73