

Aluminium Conductor Steel Supported (ACSS/TW - GA(X) or MA(X))

ACSS/TW (GA(X) or MA(X) (ASTM B857))

Code Name	Strands No.		Diameter (mm)			Area (mm ²)			Weight of Conductor (kg/km)			Rated Strength (by type and coating of steel wires) (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	GA2 or MA2	GA3 or MA3	GA4 or MA4	GA5 or MA5	DC at 20 °C	AC at 25 °C	AC at 75 °C				
Partridge	18	7	3.09	2.00	14.73	135.19	22.02	157.21	373.91	172.03	545.94	39.59	43.15	48.04	50.71	0.2060	0.2107	0.2526	18.96	7934.80	24.23	
Oriole	17	7	3.57	2.69	17.53	170.45	39.78	210.23	473.76	310.70	784.46	65.83	72.50	80.95	84.96	0.1625	0.1667	0.1997	17.97	8686.76	25.54	
Flicker	18	7	4.14	2.39	19.81	241.70	31.34	273.04	667.84	244.80	912.64	57.82	63.16	69.83	72.95	0.1157	0.1189	0.1426	19.53	7547.33	23.53	
Hawk	18	7	4.14	2.68	20.07	241.70	39.33	281.02	668.50	307.19	975.69	69.39	76.06	84.07	88.07	0.1152	0.1185	0.1420	18.96	7932.55	24.23	
Hen	17	7	4.26	3.20	21.08	241.70	56.40	298.10	671.77	440.54	1112.31	93.41	100.97	112.98	118.76	0.1146	0.1182	0.1416	17.97	8686.63	25.54	
Parakeet	18	7	4.47	2.58	21.34	281.98	36.54	318.52	779.15	285.42	1064.57	67.61	73.84	81.40	84.96	0.0992	0.1023	0.1226	19.53	7546.36	23.53	
Dove	20	7	4.24	2.89	21.59	281.98	45.93	327.91	779.91	358.79	1138.70	80.95	88.52	98.30	102.75	0.0988	0.1019	0.1221	18.96	7934.59	24.23	
Rook	18	7	4.78	2.76	22.61	322.26	41.75	364.02	890.46	326.15	1216.61	76.95	84.51	92.96	97.41	0.0868	0.0898	0.1077	19.53	7546.13	23.53	
Grosbeak	20	7	4.53	3.09	23.11	322.26	52.45	374.71	891.33	409.66	1300.99	92.07	99.64	110.31	111.20	0.0864	0.0895	0.1073	18.96	7932.86	24.23	
Tern	17	7	5.49	2.25	24.38	402.83	27.84	430.67	1111.44	217.48	1328.92	63.16	67.61	73.84	77.84	0.0699	0.0732	0.0878	20.85	6779.79	22.06	
Puffin	18	7	5.34	2.81	24.89	402.83	43.54	446.37	1112.53	340.12	1452.65	84.07	91.63	100.52	105.42	0.0696	0.0728	0.0874	19.96	7283.49	23.04	
Condor	20	7	5.06	3.08	25.15	402.83	52.19	455.01	1113.07	407.64	1520.71	96.52	103.64	114.31	119.65	0.0694	0.0727	0.0871	19.53	7545.96	23.53	
Drake	20	7	5.06	3.45	25.65	402.83	65.60	468.43	1114.16	512.43	1626.59	115.20	124.54	137.89	144.56	0.0691	0.0724	0.0868	18.96	7934.13	24.23	
Mallard	22	19	4.83	2.48	26.67	402.83	91.89	494.72	1119.61	719.23	1838.84	152.57	168.58	187.26	197.05	0.0688	0.0720	0.0863	18.04	8633.82	25.45	
Phoenix	30	7	4.53	2.13	26.67	483.39	24.85	508.24	1338.96	194.09	1533.05	63.16	67.61	72.50	76.06	0.0587	0.0618	0.0742	21.32	6538.51	21.58	
Rail	32	7	4.39	2.47	26.92	483.39	33.44	516.83	1340.26	261.21	1601.48	74.28	80.06	87.18	90.74	0.0586	0.0617	0.0740	20.85	6780.62	22.06	
Cardinal	20	7	5.55	3.38	27.43	483.39	62.65	546.04	1335.69	489.33	1825.02	115.65	124.54	137.44	143.67	0.0578	0.0610	0.0731	19.53	7546.49	23.53	
Snowbird	30	7	4.71	2.21	27.69	523.67	26.91	550.58	1450.54	210.18	1660.72	68.50	72.95	78.73	82.29	0.0541	0.0576	0.0691	21.32	6538.22	21.58	
Ortolan	32	7	4.57	2.57	27.94	523.67	36.18	559.86	1451.95	282.62	1734.57	80.51	86.74	94.30	97.86	0.0541	0.0575	0.0689	20.85	6779.43	22.06	
Curlew	21	7	5.64	3.51	28.70	523.67	67.84	591.51	1446.99	529.91	1976.90	125.43	134.77	148.56	155.68	0.0534	0.0568	0.0681	19.53	7545.89	23.53	
Avocet	30	7	4.89	2.30	28.70	563.96	28.99	592.94	1450.54	226.41	1676.94	72.50	77.84	83.62	86.74	0.0503	0.0540	0.0648	21.32	6538.41	21.58	
Bluejay	33	7	4.67	2.66	28.96	563.96	39.03	602.99	1563.64	304.86	1868.51	86.74	93.41	101.86	105.86	0.0502	0.0539	0.0646	20.85	6780.97	22.07	
Finch	38	19	4.35	2.19	30.23	563.96	71.53	635.49	1567.46	559.87	2127.33	135.22	147.67	162.35	172.14	0.0499	0.0536	0.0642	19.58	7513.37	23.47	
Oxbird	30	7	5.06	2.38	29.72	603.99	31.07	635.06	1562.12	242.72	1804.84	77.84	83.18	89.85	92.96	0.0469	0.0504	0.0605	21.32	6539.13	21.58	
Bunting	33	7	4.83	2.76	29.97	603.99	41.75	645.74	1674.63	326.15	2000.78	92.96	100.08	108.98	113.42	0.0469	0.0503	0.0604	20.85	6779.96	22.06	
Grackle	38	19	4.50	2.27	30.99	603.99	76.60	680.59	1678.71	599.52	2278.23	145.00	157.90	173.92	184.59	0.0466	0.0500	0.0600	19.59	7513.14	23.47	
Scissortail	30	7	5.23	2.46	30.48	644.52	33.17	677.69	1672.99	259.07	1932.06	83.18	88.96	95.63	99.19	0.0440	0.0478	0.0573	21.32	6539.27	21.58	
Bittern	35	7	4.84	2.85	30.99	644.52	44.57	689.09	1787.02	348.15	2135.17	99.19	106.75	116.09	120.99	0.0439	0.0477	0.0572	20.85	6780.26	22.06	
Pheasant	39	19	4.59	2.34	32.00	644.52	81.66	726.18	1791.38	639.14	2430.52	151.68	165.91	182.81	191.26	0.0437	0.0474	0.0568	19.59	7511.65	23.46	
Dipper	35	7	4.99	2.93	32.00	684.55	47.32	731.87	1787.02	369.59	2156.61	105.42	113.42	123.21	128.10	0.0413	0.0449	0.0539	20.85	6779.80	22.06	
Martin	39	19	4.73	2.41	33.02	684.55	86.70	771.25	1902.63	678.59	2581.23	161.02	176.14	193.93	202.83	0.0411	0.0452	0.0542	19.59	7511.11	23.46	
Bobolink	36	7	5.06	3.02	32.77	725.09	50.14	775.23	1898.01	391.67	2289.67	111.64	120.10	130.77	135.66	0.0390	0.0429	0.0515	20.85	6780.26	22.06	
Plover	39	19	4.87	2.48	34.04	725.09	91.89	816.98	2015.30	719.23	2734.52	170.80	186.37	205.50	214.84	0.0388	0.0427	0.0512	19.59	7512.07	23.46	
Lapwing	36	7	5.34	3.18	34.54	805.65	55.69	861.34	2010.40	434.97	2445.36	124.10	131.66	143.23	149.01	0.0351	0.0392	0.0470	20.85	6779.80	22.06	
Falcon	42	19	4.94	2.62	35.81	805.65	102.13	907.79	2239.22	799.37	3038.60	189.48	207.28	228.18	238.86	0.0349	0.0390	0.0467	19.59	7512.52	23.47	
Chukar	37	19	5.57	2.22	36.83	901.93	73.54	975.47	2230.50	575.57	2806.08	157.01	169.91	185.04	195.27	0.0313	0.0355	0.0425	20.54	6944.21	22.39	
Bluebird	64	19	4.66	2.44	40.89	1092.45	88.91	1181.35	3024.51	695.86	3720.37	187.26	202.38	220.62	229.96	0.0260	0.0312	0.0375	20.55	6942.23	22.38	

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	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total	GA2 or MA2	GA3 or MA3	GA4 or MA4	GA5 or MA5	DC at 20 °C	AC at 25 °C	AC at 75 °C				
Mohawk	18	7	4.53	2.62	21.59	289.68	37.63	327.31	800.43	293.92	1094.35	69.39	76.06	83.62	87.63	0.0965	0.0999	0.1198	19.53	7550.09	23.53	
Calumet	20	7	4.27	2.91	21.84	286.44	46.58	333.02	792.25	363.85	1156.10	81.84	89.85	99.64	104.53	0.0972	0.1007	0.1207	18.96	7931.50	24.23	
Mystic	20	7	4.64	2.82	23.11	337.77	43.78	381.55	933.30	341.97	1275.27	80.95	88.52	97.41	101.86	0.0828	0.0861	0.1033	19.53	7546.71	23.53	
Oswego	20	7	4.63	3.16	23.62	336.85	54.89	391.74	931.69	428.74	1360.43	96.52	104.08	115.65	120.99	0.0827	0.0860	0.1031	18.95	7935.15	24.24	
Maumee	20	7	4.98	3.04	24.89	389.25	50.65	439.90	1075.55	395.63	1471.18	93.41	102.30	112.53	117.87	0.0718	0.0752	0.0901	19.52	7552.80	23.54	
Wabash	20	7	4.96	3.38	25.15	386.51	62.83	449.35	1069.04	490.81	1559.84	110.76	119.21	132.11	138.78	0.0721	0.0754	0.0904	18.96	7930.89	24.23	
Kettle	32	7	4.39	2.47	26.92	485.01	33.58	518.59	1344.76	262.29	1607.05	74.73	80.51	87.63	90.74	0.0584	0.0615	0.0738	20.85	6781.33	22.07	
Fraser	35	7	4.18	2.93	27.43	479.69	47.23	526.93	1331.31	368.95	1700.26	93.85	101.86	111.64	116.54	0.0588	0.0620	0.0744	20.16	7162.39	22.81	
Columbia	21	7	5.45	3.40	27.69	489.57	63.50	553.07	1352.77	495.98	1848.75	117.43	125.88	139.22	145.89	0.0571	0.0607	0.0728	19.53	7547.72	23.53	
Suwannee	22	7	5.31	3.79	28.19	486.23	79.06	565.29	1344.84	617.55	1962.40	136.55	147.23	163.69	171.69	0.0573	0.0604	0.0724	18.96	7931.24	24.23	
Cheyenne	30	7	5.01	2.35	29.46	591.88	30.41	622.29	1639.45	237.56	1877.01	76.51	81.40	87.63	90.74	0.0479	0.0514	0.0617	21.32	6538.25	21.58	
Genesee	33	7	4.76	2.74	29.72	586.76	41.22	627.98	1626.86	321.95	1948.82	91.18	98.30	106.75	111.20	0.0482	0.0518	0.0621	20.82	6794.88	22.09	
Hudson	25	7	5.47	3.73	30.48	586.96	76.33	663.29	1621.87	596.23	2218.10	138.33	149.01	164.58	172.58	0.0476	0.0511	0.0613	19.52	7551.87	23.54	
Catawba	30	7	5.23	2.46	30.48	644.52	33.17	677.69	1785.28	259.07	2044.34	83.18	88.96	95.63	99.19	0.0440	0.0478	0.0573	21.32	6539.27	21.58	
Nelson	35	7	4.81	2.83	30.73	636.97	44.10	681.07	1766.09	344.43	2110.52	98.30	105.86	114.76	119.65	0.0444	0.0483	0.0579	20.85	6781.24	22.07	
Yukon	38	19	4.58	2.31	31.75	625.07	79.72	704.79	1737.30	623.96	2361.26	147.67	161.46	177.92	186.37	0.0450	0.0489	0.0586	19.57	7521.80	23.48	
Truckee	30	7	5.43	2.55	31.75	695.45	35.75	731.20	1926.33	279.27	2205.60	89.85	95.63	103.19	106.75	0.0408	0.0448	0.0538	21.32	6538.60	21.58	
Mackenzi	36	7	4.94	2.94	32.00	688.96	47.64	736.60	1910.23	372.15	2282.38	106.31	114.31	124.10	128.99	0.0411	0.0452	0.0542	20.85	6780.26	22.06	
Thames	39	19	4.70	2.40	32.77	676.24	85.79	762.03	1879.54	671.46	2551.00	159.24	173.92	191.71	200.60	0.0416	0.0452	0.0542	19.58	7513.63	23.47	
St. Croix	33	7	5.36	2.64	32.77	743.73	38.44	782.17	2060.08	300.23	2360.32	96.08	102.75	110.76	114.76	0.0381	0.0419	0.0503	21.31	6542.35	21.59	
Miramichi	36	7	5.11	3.05	33.02	737.40	51.07	788.48	2044.54	398.95	2443.48	113.87	120.54	131.22	136.55	0.0384	0.0422	0.0507	20.84	6781.73	22.07	
Merrimack	39	19	4.87	2.48	34.04	726.41	92.08	818.49	2018.96	720.70	2739.66	170.80	186.82	205.94	215.28	0.0387	0.0426	0.0511	19.59	7512.42	23.46	
Platte	33	7	5.54	2.73	33.78	795.01	40.91	835.92	2202.12	319.57	2521.69	102.75	109.42	117.87	122.32	0.0357	0.0398	0.0477	21.32	6539.31	21.58	
Potomac	36	7	5.28	3.15	34.29	789.13	54.62	843.76	2187.97	426.68	2614.65	121.43	128.99	140.56	145.89	0.0359	0.0400	0.0480	20.85	6781.16	22.07	
Rio Grande	39	19	5.04	2.57	35.05	776.92	98.60	875.52	2159.37	771.68	2931.05	183.26	200.16	220.62	230.85	0.0362	0.0404	0.0485	19.58	7514.12	23.47	
Schuykill	36	7	5.45	3.25	35.31	839.80	58.11	897.92	2328.46	453.92	2782.38	129.44	137.44	149.45	155.24	0.0337	0.0382	0.0458	20.85	6780.84	22.06	
Pecos	39	19	5.18	2.70	36.07	821.87	108.99	930.86	2284.29	853.02	3137.31	200.16	219.29	241.53	253.09	0.0342	0.0382	0.0458	19.48	7582.56	23.59	
Pee Dee	37	7	5.54	3.35	36.32	891.08	61.71	952.79	2470.64	482.00	2952.64	137.44	145.89	158.79	165.02	0.0318	0.0360	0.0432	20.85	6781.54	22.07	
James	39	19	5.35	2.73	37.34	876.90	111.25	988.15	2437.23	870.75	3307.98	206.39	225.96	248.64	260.21	0.0321	0.0364	0.0436	19.58	7513.72	23.47	
Athabaska	42	7	5.47	3.54	38.10	987.86	68.73	1056.59	2738.97	536.83	3275.80	152.57	162.35	174.81	181.48	0.0287	0.0337	0.0404	20.84	6785.84	22.07	
Cumberland	42	19	5.44	2.88	39.37	976.36	123.58	1099.94	2713.68	967.24	3680.93	229.52	250.87	276.67	289.12	0.0288	0.0332	0.0399	19.59	7510.14	23.46	
Powder	64	19	4.66	2.44	40.64	1091.33	88.91	1180.24	3046.51	695.86	3742.38	187.26	202.38	220.62	229.96	0.0261	0.0313	0.0375	20.55	6943.32	22.38	
Santee	64	19	5.15	2.70	44.70	1331.25	108.58	1439.83	3716.27	849.82	4566.09	228.18	247.31	269.55	280.67	0.0214	0.0268	0.0321	20.54	6944.54	22.39	