

Shaped Wire Concentric-Lay Compact Aluminum Conductors Steel Reinforced (ACSR/TW) Diameters Equal to Standard ACSR Sizes

Code Word	Size (kcmil)	Type No.	Cross Sectional Area (in ²)		Stranding			Diameter (in)		Weight (lbs/1000 ft)			Rated Breaking Strength (lbs)	Resistance (ohms/mile)		Ampacity (amps)
			Aluminum	Total	No of Layers of Aluminum	No. of Aluminum Wires	No. & Diameter Individual Steel Wire	Steel Core	Complete Cable	Alum.	Steel	Total	Standard Strength	DC @ 20°C	AC @ 75°C	@ 75°C
Mackenzie/TW	1359.7	7	1.0679	1.1418	3	36	7 x 0.1559	0.3477	1.259	1280.0	250.0	1530.0	36900	0.0127	0.0159	1206
Thames/TW	1334.6	13	1.3480	1.1809	3	38	19 x 0.0944	0.4720	1.290	1260.1	451.2	1711.3	46300	0.0128	0.0160	1210
St. Croix/TW	1467.8	5	1.1529	1.2124	3	33	7 x 0.1041	0.3123	1.292	1383.0	202.0	1585.0	35800	0.0117	0.0149	1256
Miramichi/TW	1455.3	7	1.1430	1.2222	3	36	7 x 0.1200	0.3600	1.302	1372.0	268.0	1640.0	39200	0.0118	0.0150	1256
Merrimack/TW	1433.6	13	1.1250	1.2677	3	39	19 x 0.0978	0.4890	1.340	1355.8	484.3	1840.1	49700	0.0119	0.0150	1264
Platte/TW	1569.0	5	1.2323	1.2957	3	33	7 x 0.1074	0.3222	1.334	1478.0	215.0	1693.0	38200	0.0110	0.0140	1306
Potomac/TW	1557.4	7	1.2232	1.3079	3	36	7 x 0.1241	0.3723	1.350	1466.9	288.1	1755.0	41900	0.0111	0.0140	1307
Rio Grande/TW	1533.3	13	1.2043	1.3571	3	38	19 x 0.1012	0.5060	1.380	1449.0	519.0	1968.0	53200	0.0112	0.0141	1316
Schuykill/TW	1657.4	7	1.3020	1.3920	3	36	7 x 0.1280	0.3840	1.386	1563.0	305.0	1868.0	44000	0.0104	0.0133	1356
Pecos/TW	1622.0	13	1.2739	1.4429	3	39	19 x 0.1064	0.5320	1.420	1533.7	573.2	2106.9	57500	0.0106	0.0133	1363
Pee Dee/TW	1758.6	7	1.3810	1.4770	3	38	7 x 0.1319	0.3957	1.427	1656.4	323.9	1980.3	46700	0.0098	0.0126	1404
James/TW	1730.6	13	1.3590	1.5314	3	34	19 x 0.1075	0.5375	1.470	1636.0	585.0	2221.0	59400	0.0099	0.0126	1415
Athabaska/TW	1949.6	7	1.5312	1.6377	3	44	7 x 0.1392	0.4176	1.504	1838.0	361.0	2199.0	51900	0.0088	0.0115	1491
Cumberland/TW	1926.9	13	1.5134	1.7049	3	42	19 x 0.1133	0.5665	1.550	1821.0	650.0	2471.0	65300	0.0089	0.0114	1507
Powder/TW	2153.8	8	1.6912	1.8290	4	64	19 x 0.0961	0.4805	1.602	2042.5	396.1	2438.6	61100	0.0080	0.0105	1584
Santee/TW	2627.3	8	2.0630	2.2268	4	64	19 x 0.1062	0.5310	1.761	2491.5	571.1	3062.6	74500	0.0066	0.0089	1768

Ampacity based on referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.