

# ACSR/TW Aluminum Conductor Steel Reinforced



A Viakable Company

## Trapezoidal Wire

CME Wire and Cable offers ACSR/TW – shaped wire compact concentric-lay-stranded aluminum conductor steel reinforced – conductors with equal area or equal diameter designs, as compared to standard ACSR conductors, and various steel core coatings to address your application requirements for transmission and distribution projects.

### Construction

ACSR/TW, a non-homogenous conductor, is a trapezoidal shaped wire compact concentric-lay-stranded conductor made from aluminum 1350-H19 (extra hard) wires and round, coated steel core wire(s). Several combinations of aluminum and steel strands and layers are possible to design ACSR/TW conductors with equal area or equal diameter as compared to ACSR conductors for overhead lines. Commonly used sizes are included here. Class A zinc coating (ACSR/TW/GA2) is usually adequate for ordinary environments to protect the steel core wires from corrosion.

### Specifications

ACSR/TW conductors are manufactured in accordance with the ASTM specification B779. Other ASTM referenced

specifications include B230, B498, B500, B 606, B802, B803, B957 and B958.

### Features

The favorable strength/weight ratio, from the light weight and good conductivity of aluminum with the high tensile strength of steel, makes ACSR conductors a preferred choice for overhead power transmission and distribution projects. Steel strands provide mechanical reinforcement to handle higher line tensions, reduce sag, and longer span lengths. ACSR conductors are recognized for their dependable performance under adverse weather conditions.

Use of ACSR/TW with the equal area design allows equal ampacity in a conductor with approximately 10% smaller diameter over a standard ACSR

with same area. This smaller diameter of equal area ACSR/TW conductors helps reduce the effects of ice and wind loading on the conductor.

Use of ACSR/TW with equal diameter design provides a conductor in which the aluminum area is increased by approximately 20% – 25% over a standard ACSR with same diameter. This increase in the cross-sectional area of the conductor reduces its ac resistance by about 15% – 20% and thus, increases its current carrying capacity by about 10%.

### Options

ACSR/TW/GA2 is standard.

*Other possibilities shown below.*



ALUMINUM CONDUCTOR

## Technical Data

### ACSR/TW Options

Steel Coating	Steel Strength			
	Standard	High	Extra High	Ultra High
Zinc	/GA2 /GC2	/GA3	/GA4	/GA5
Zinc – 5% Aluminum Mischmetal Alloy Coating	/MA2 /MC2	/MA3	/MA4	/MA5

- /NS: Non-Specular finish available for all ACSR products.
- /HC: High-Conductivity aluminum (62.0% IACS) for all ACSR products.
- /AW: Aluminum-clad steel core – see ACSR/AW catalog sheet.
- /TW: Trapezoidal-shaped aluminum wires – see ACSR/TW catalog sheet.

Technical Data *continued*

# ACSR/TW

Code Word	Size AWG or kcmil	Type	Stranding				Nominal Overall Diameter		Cross Section		Rated Strength kip
			Aluminum		Steel		CDR	Steel Core	Al	Total	
			No. Al Wires	No. Al Layers	No. of Wires	Diameter in					
Flicker/ACSR/TW	477.0	13	18	2	7	0.0940	0.78	0.2820	0.3748	0.4234	17.2
Hawk/ACSR/TW	477.0	16	18	2	7	0.1053	0.79	0.3159	0.3745	0.4355	19.4
Parakeet/ACSR/TW	556.5	13	18	2	7	0.1015	0.84	0.3045	0.4372	0.4938	20.0
Dove/ACSR/TW	556.5	16	20	2	7	0.1138	0.85	0.3414	0.4371	0.5083	22.6
Rook/ACSR/TW	636.0	13	18	2	7	0.1085	0.89	0.3255	0.4994	0.5641	22.9
Grosbeak/ACSR/TW	636.0	16	20	2	7	0.1216	0.91	0.3648	0.4996	0.5809	25.4
Tern/ACSR/TW	795.0	7	17	2	7	0.0888	0.96	0.2664	0.6247	0.6680	21.9
Puffin/ACSR/TW	795.0	11	21	2	7	0.1108	0.98	0.3324	0.6241	0.6916	26.2
Condor/ACSR/TW	795.0	13	21	2	7	0.1213	0.99	0.3639	0.6242	0.7051	28.2
Drake/ACSR/TW	795.0	16	20	2	7	0.1360	1.01	0.4080	0.6242	0.7259	31.8
Phoenix/ACSR/TW	954.0	5	30	3	7	0.0837	1.04	0.2511	0.7497	0.7882	23.8
Rail/ACSR/TW	954.0	7	32	3	7	0.0971	1.06	0.2913	0.7493	0.8011	25.9
Cardinal/ACSR/TW	954.0	13	21	2	7	0.1329	1.08	0.3987	0.7492	0.8463	33.5
Snowbird/ACSR/TW	1033.5	5	30	3	7	0.0871	1.09	0.2613	0.8115	0.8532	25.7
Ortolan/ACSR/TW	1033.5	7	33	3	7	0.1010	1.10	0.3030	0.8112	0.8673	28.1
Curlew/ACSR/TW	1033.5	13	21	2	7	0.1383	1.13	0.4149	0.8118	0.9170	36.3
Avocet/ACSR/TW	1113.0	5	30	3	7	0.0904	1.13	0.2712	0.8737	0.9186	27.5
Bluejay/ACSR/TW	1113.0	7	33	3	7	0.1049	1.14	0.3147	0.8746	0.9351	30.3
Finch/ACSR/TW	1113.0	13	39	3	19	0.0862	1.18	0.4310	0.8737	0.9845	39.1
Oxbird/ACSR/TW	1192.5	5	30	3	7	0.0936	1.17	0.2808	0.9361	0.9843	29.4
Bunting/ACSR/TW	1192.5	7	33	3	7	0.1086	1.18	0.3258	0.9368	1.0016	32.4
Grackle/ACSR/TW	1192.5	13	39	3	19	0.0892	1.22	0.4460	0.9369	1.0556	41.9
Scissortail/ACSR/TW	1272.0	5	30	3	7	0.0967	1.20	0.2901	0.9994	1.0508	31.4
Bittern/ACSR/TW	1272.0	7	33	3	7	0.1121	1.22	0.3363	0.9994	1.0685	34.6
Pheasant/ACSR/TW	1272.0	13	39	3	19	0.0921	1.26	0.4605	0.9987	1.1252	44.1
Dipper/ACSR/TW	1351.5	7	33	3	7	0.1155	1.25	0.3465	1.0616	1.1350	36.7
Martin/ACSR/TW	1351.5	13	39	3	19	0.0949	1.30	0.4745	1.0610	1.1954	46.8
Bobolink/ACSR/TW	1431.0	7	33	3	7	0.1189	1.29	0.3567	1.1243	1.2020	38.9
Plover/ACSR/TW	1431.0	13	39	3	19	0.0977	1.33	0.4885	1.1242	1.2666	49.6
Lapwing/ACSR/TW	1590.0	7	36	3	7	0.1253	1.36	0.3759	1.2488	1.3351	42.2
Falcon/ACSR/TW	1590.0	13	39	3	19	0.1030	1.40	0.5150	1.2483	1.4066	55.1
Chukar/ACSR/TW	1780.0	8	38	3	19	0.0874	1.45	0.4370	1.3982	1.5122	50.7
Bluebird/ACSR/TW*	2156.0	8	64	4	19	0.0961	1.61	0.4805	1.6934	1.8312	61.1

- Code words shown are for standard ACSR/GA2 conductor. See the options for other applicable code word modifiers.
  - Rated strengths shown are applicable for ACSR/GA2 and ACSR/MA2 cores.
  - Direct current resistance is based on 61.2% IACS for 1350 wires and 8% IACS for the steel core at 20 °C.
  - Consult IEEE 738: Standard for Calculating the Current-Temperature of Bare Overhead Conductors or contact CME Wire and Cable for assistance.
  - The above data are an estimate based on given criteria and subject to normal manufacturing tolerances.
- \* Contact CME to review availability.

Technical Data *continued*

# ACSR/TW

Code Word	Size AWG or kcmil	Type	Mass			Percent of Total Mass		Resistance			GMR ft	Reactance	
			Al	Steel	Total	Al	Steel	dc	ac – 60 Hz			Capacitive MΩ/kft	Inductive Ω/kft
			lb/kft						20 °C	25 °C			
									Ω/kft				
Flicker/ACSR/TW	477.0	13	448	164	612	73.14	26.86	0.0357	0.0366	0.0437	0.0259	0.5375	0.0839
Hawk/ACSR/TW	477.0	16	448	206	655	68.47	31.53	0.0356	0.0364	0.0436	0.0266	0.5349	0.0834
Parakeet/ACSR/TW	556.5	13	522	192	714	73.15	26.85	0.0306	0.0314	0.0375	0.0279	0.5259	0.0822
Dove/ACSR/TW	556.5	16	523	241	764	68.45	31.55	0.0305	0.0313	0.0374	0.0287	0.5232	0.0816
Rook/ACSR/TW	636.0	13	597	219	816	73.15	26.85	0.0268	0.0275	0.0329	0.0298	0.5159	0.0808
Grosbeak/ACSR/TW	636.0	16	598	275	873	68.47	31.53	0.0267	0.0274	0.0328	0.0307	0.5129	0.0801
Tern/ACSR/TW	795.0	7	745	147	892	83.54	16.46	0.0215	0.0223	0.0266	0.0315	0.5042	0.0795
Puffin/ACSR/TW	795.0	11	746	229	974	76.55	23.45	0.0215	0.0222	0.0265	0.0327	0.5009	0.0786
Condor/ACSR/TW	795.0	13	746	274	1020	73.15	26.85	0.0214	0.0221	0.0264	0.0333	0.4987	0.0782
Drake/ACSR/TW	795.0	16	747	344	1091	68.45	31.55	0.0213	0.0220	0.0263	0.0342	0.4962	0.0776
Phoenix/ACSR/TW	954.0	5	898	130	1028	87.32	12.68	0.0181	0.0189	0.0226	0.0343	0.4910	0.0775
Rail/ACSR/TW	954.0	7	899	175	1074	83.66	16.34	0.0180	0.0188	0.0225	0.0350	0.4889	0.0771
Cardinal/ACSR/TW	954.0	13	895	329	1224	73.15	26.85	0.0178	0.0185	0.0221	0.0364	0.4851	0.0762
Snowbird/ACSR/TW	1033.5	5	972	141	1114	87.32	12.68	0.0167	0.0175	0.0209	0.0357	0.4844	0.0766
Ortolan/ACSR/TW	1033.5	7	973	190	1163	83.68	16.32	0.0167	0.0174	0.0208	0.0364	0.4827	0.0762
Curlew/ACSR/TW	1033.5	13	970	356	1326	73.15	26.85	0.0165	0.0171	0.0204	0.0379	0.4787	0.0752
Avocet/ACSR/TW	1113.0	5	1047	152	1199	87.32	12.68	0.0155	0.0163	0.0195	0.0370	0.4790	0.0758
Bluejay/ACSR/TW	1113.0	7	1048	205	1253	83.66	16.34	0.0155	0.0162	0.0194	0.0377	0.4772	0.0753
Finch/ACSR/TW	1113.0	13	1051	376	1427	73.64	26.36	0.0154	0.0161	0.0196	0.0399	0.4716	0.0740
Oxbird/ACSR/TW	1192.5	5	1122	163	1285	87.31	12.69	0.0145	0.0153	0.0182	0.0382	0.4738	0.0750
Bunting/ACSR/TW	1192.5	7	1123	220	1343	83.65	16.35	0.0144	0.0152	0.0182	0.0390	0.4720	0.0746
Grackle/ACSR/TW	1192.5	13	1126	403	1529	73.65	26.35	0.0144	0.0150	0.0183	0.0412	0.4665	0.0733
Scissortail/ACSR/TW	1272.0	5	1197	174	1371	87.30	12.70	0.0136	0.0144	0.0171	0.0394	0.4690	0.0743
Bittern/ACSR/TW	1272.0	7	1198	234	1432	83.67	16.33	0.0135	0.0143	0.0171	0.0402	0.4672	0.0739
Pheasant/ACSR/TW	1272.0	13	1201	429	1630	73.66	26.34	0.0135	0.0142	0.0172	0.0424	0.4619	0.0726
Dipper/ACSR/TW	1351.5	7	1273	248	1521	83.68	16.32	0.0127	0.0136	0.0161	0.0414	0.4626	0.0732
Martin/ACSR/TW	1351.5	13	1276	456	1732	73.68	26.32	0.0127	0.0134	0.0163	0.0437	0.4572	0.0719
Bobolink/ACSR/TW	1431.0	7	1348	263	1611	83.67	16.33	0.0120	0.0129	0.0153	0.0427	0.4578	0.0725
Plover/ACSR/TW	1431.0	13	1351	483	1834	73.66	26.34	0.0120	0.0127	0.0154	0.0450	0.4527	0.0713
Lapwing/ACSR/TW	1590.0	7	1498	292	1790	83.67	16.33	0.0108	0.0117	0.0139	0.0450	0.4495	0.0712
Falcon/ACSR/TW	1590.0	13	1501	537	2038	73.65	26.35	0.0108	0.0115	0.0139	0.0473	0.4448	0.0701
Chukar/ACSR/TW	1780.0	8	1674	387	2061	81.24	18.76	0.0096	0.0105	0.0127	0.0482	0.4398	0.0697
Bluebird/ACSR/TW*	2156.0	8	2045	467	2512	81.39	18.61	0.0080	0.0090	0.0105	0.0538	0.4229	0.0672

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- \* Contact CME to review availability.

Technical Data *continued*

# ACSR/TW

Code Word	Size AWG or kcmil	Type	Stranding				Nominal Overall Diameter		Cross Section		Rated Strength kip
			Aluminum		Steel		CDR in	Steel Core in	Al in <sup>2</sup>	Total in <sup>2</sup>	
			No. Al Wires	No. Al Layers	No. of Wires	Diameter in					
Mohawk/ACSR/TW	571.7	13	18	2	7	0.1030	0.846	0.3090	0.4489	0.5072	20.6
Calumet/ACSR/TW	565.3	16	20	2	7	0.1146	0.858	0.3438	0.4438	0.5161	22.9
Mystic/ACSR/TW	666.6	13	20	2	7	0.1111	0.913	0.3333	0.5236	0.5915	24.0
Oswego/ACSR/TW	664.8	16	20	2	7	0.1244	0.927	0.3732	0.5222	0.6073	26.6
Maumee/ACSR/TW	768.2	13	20	2	7	0.1195	0.977	0.3585	0.6032	0.6817	27.7
Wabash/ACSR/TW	762.8	16	20	2	7	0.1331	0.990	0.3993	0.5989	0.6963	30.5
Kettle/ACSR/TW	957.2	7	32	3	7	0.0973	1.060	0.2919	0.7518	0.8038	26.0
Suwannee/ACSR/TW	959.6	16	22	2	7	0.1493	1.108	0.4479	0.7539	0.8764	37.2
Cheyenne/ACSR/TW	1168.1	5	30	3	7	0.0926	1.155	0.2778	0.9170	0.9642	28.8
Genesee/ACSR/TW	1158.0	7	33	3	7	0.1078	1.165	0.3234	0.9094	0.9732	31.7
Hudson/ACSR/TW	1158.4	13	26	2	7	0.1467	1.196	0.4401	0.9096	1.0279	39.6
Catawba/ACSR/TW	1272.0	5	30	3	7	0.0967	1.203	0.2901	0.9993	1.0507	31.4
Nelson/ACSR/TW	1257.1	7	35	3	7	0.1115	1.213	0.3345	0.9875	1.0558	34.2
Yukon/ACSR/TW	1233.6	13	38	3	19	0.0910	1.250	0.4550	0.9685	1.0921	42.9
Truckee/ACSR/TW	1372.5	5	30	3	7	0.1004	1.248	0.3012	1.0783	1.1337	33.4
Mackenzie/ACSR/TW	1359.7	7	36	3	7	0.1159	1.259	0.3477	1.0674	1.1413	36.9
Thames/ACSR/TW	1334.6	13	39	3	19	0.0944	1.290	0.4720	1.0479	1.1808	46.3
St.Croix/ACSR/TW	1467.8	5	30	3	7	0.1041	1.292	0.3123	1.1532	1.2127	35.8
Miramichi/ACSR/TW	1455.3	7	36	3	7	0.1200	1.299	0.3600	1.1427	1.2219	39.2
Merrimack/ACSR/TW	1433.6	13	39	3	19	0.0978	1.340	0.4890	1.1255	1.2682	49.7
Platte/ACSR/TW	1569.0	5	33	3	7	0.1074	1.334	0.3222	1.2328	1.2962	38.2
Potomac/ACSR/TW	1557.4	7	36	3	7	0.1241	1.345	0.3723	1.2237	1.3084	41.9
Rio Grande/ACSR/TW	1533.3	13	39	3	19	0.1012	1.379	0.5060	1.2046	1.3574	53.2
Schuykill/ACSR/TW	1657.4	7	36	3	7	0.1280	1.386	0.3840	1.3012	1.3912	44.0
Pecos/ACSR/TW	1622.0	13	39	3	19	0.1064	1.424	0.5320	1.2736	1.4425	57.5
Pee Dee/ACSR/TW	1758.6	7	37	3	7	0.1319	1.431	0.3957	1.3811	1.4768	47.0
James/ACSR/TW	1730.6	13	39	3	19	0.1075	1.470	0.5375	1.3598	1.5322	59.4
Athabaska/ACSR/TW	1949.6	7	42	3	7	0.1392	1.504	0.4176	1.5318	1.6384	51.9
Cumberland/ACSR/TW	1926.9	13	42	3	19	0.1133	1.545	0.5665	1.5129	1.7044	66.0
Santee/ACSR/TW*	2627.3	8	64	4	19	0.1062	1.762	0.5310	2.0645	2.2328	74.5

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Technical Data *continued*

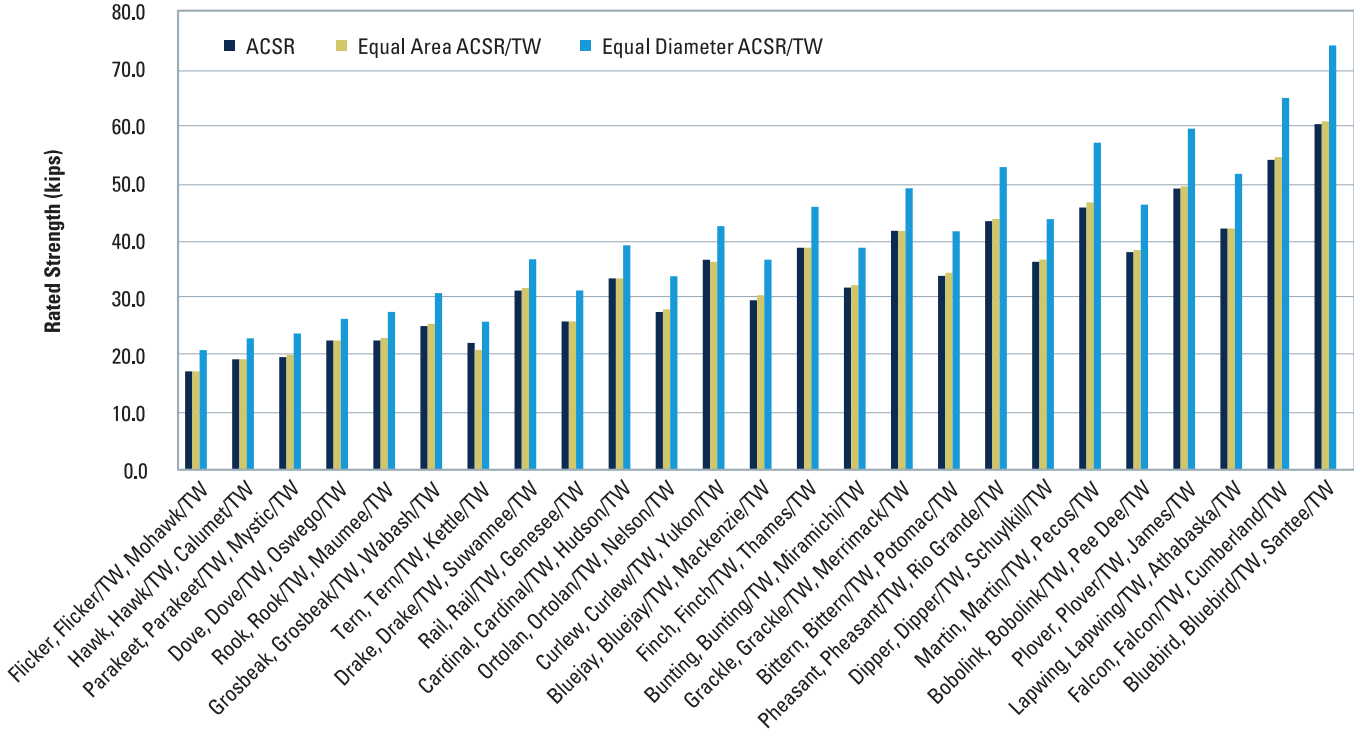
# ACSR/TW

Code Word	Size AWG or kcmil	Type	Mass			Percent of Total Mass		Resistance			GMR ft	Reactance	
			Al	Steel	Total	Al	Steel	dc	ac – 60 Hz			Capacitive MΩ/kft	Inductive Ω/kft
								20° C	25° C	75° C			
			lb/kft			Ω/kft							
Mohawk/ACSR/TW	571.7	13	537	197	734	73.10	26.90	0.0298	0.0306	0.0365	0.0283	0.5239	0.0820
Calumet/ACSR/TW	565.3	16	531	244	776	68.48	31.52	0.0300	0.0308	0.0368	0.0290	0.5217	0.0814
Mystic/ACSR/TW	666.6	13	626	230	855	73.14	26.86	0.0255	0.0263	0.0314	0.0306	0.5120	0.0801
Oswego/ACSR/TW	664.8	16	625	288	913	68.44	31.56	0.0255	0.0262	0.0314	0.0313	0.5096	0.0796
Maumee/ACSR/TW	768.2	13	721	266	987	73.07	26.93	0.0222	0.0229	0.0273	0.0328	0.5014	0.0786
Wabash/ACSR/TW	762.8	16	717	330	1046	68.49	31.51	0.0222	0.0229	0.0274	0.0335	0.4993	0.0781
Kettle/ACSR/TW	957.2	7	902	176	1078	83.65	16.35	0.0180	0.0188	0.0224	0.0350	0.4886	0.0770
Suwannee/ACSR/TW	959.6	16	902	415	1317	68.49	31.51	0.0177	0.0183	0.0218	0.0376	0.4817	0.0754
Cheyenne/ACSR/TW	1168.1	5	1099	160	1259	87.32	12.68	0.0148	0.0156	0.0186	0.0379	0.4751	0.0752
Genesee/ACSR/TW	1158.0	7	1091	216	1307	83.45	16.55	0.0149	0.0156	0.0187	0.0385	0.4739	0.0748
Hudson/ACSR/TW	1158.4	13	1087	401	1488	73.08	26.92	0.0147	0.0154	0.0183	0.0402	0.4697	0.0738
Catawba/ACSR/TW	1272.0	5	1197	174	1371	87.30	12.70	0.0136	0.0144	0.0172	0.0395	0.4688	0.0743
Nelson/ACSR/TW	1257.1	7	1184	231	1415	83.65	16.35	0.0137	0.0145	0.0172	0.0402	0.4674	0.0739
Yukon/ACSR/TW	1233.6	13	1165	419	1584	73.53	26.47	0.0139	0.0146	0.0178	0.0422	0.4628	0.0728
Truckee/ACSR/TW	1372.5	5	1291	188	1479	87.32	12.68	0.0126	0.0134	0.0160	0.0409	0.4631	0.0734
Mackenzie/ACSR/TW	1359.7	7	1281	250	1531	83.67	16.33	0.0127	0.0135	0.0160	0.0417	0.4617	0.0730
Thames/ACSR/TW	1334.6	13	1260	451	1711	73.64	26.36	0.0128	0.0135	0.0165	0.0435	0.4579	0.0270
St.Croix/ACSR/TW	1467.8	5	1381	202	1583	87.26	12.74	0.0117	0.0126	0.0150	0.0424	0.4576	0.0726
Miramichi/ACSR/TW	1455.3	7	1371	268	1639	83.64	16.36	0.0118	0.0127	0.0150	0.0430	0.4568	0.0723
Merrimack/ACSR/TW	1433.6	13	1354	484	1838	73.65	26.35	0.0119	0.0127	0.0154	0.0452	0.4519	0.0712
Platte/ACSR/TW	1569.0	5	1476	215	1691	87.30	12.70	0.0110	0.0119	0.0141	0.0438	0.4527	0.0719
Potomac/ACSR/TW	1557.4	7	1467	287	1754	83.65	16.35	0.0111	0.0119	0.0141	0.0445	0.4513	0.0715
Rio Grande/ACSR/TW	1533.3	13	1448	518	1966	73.63	26.37	0.0112	0.0119	0.0144	0.0466	0.4474	0.0705
Schuykill/ACSR/TW	1657.4	7	1561	305	1866	83.66	16.34	0.0104	0.0113	0.0133	0.0459	0.4467	0.0708
Pecos/ACSR/TW	1622.0	13	1531	573	2105	72.77	27.23	0.0106	0.0113	0.0137	0.0482	0.4424	0.0697
Pee Dee/ACSR/TW	1758.6	7	1660	324	1983	83.67	16.33	0.0098	0.0107	0.0126	0.0475	0.4416	0.0700
James/ACSR/TW	1730.6	13	1634	585	2219	73.64	26.36	0.0099	0.0107	0.0129	0.0496	0.4374	0.0690
Athabaska/ACSR/TW	1949.6	7	1836	361	2197	83.57	16.43	0.0088	0.0098	0.0115	0.0499	0.4341	0.0689
Cumberland/ACSR/TW	1926.9	13	1819	650	2469	73.68	26.32	0.0089	0.0097	0.0116	0.0522	0.4296	0.0679
Santee/ACSR/TW*	2627.3	8	2492	571	3062	81.36	18.64	0.0066	0.0077	0.0089	0.0589	0.4090	0.0651

1. Code words shown are for standard ACSR/GA2 conductor. See the options for other applicable code word modifiers.
  2. Rated strengths shown are applicable for ACSR/GA2 and ACSR/MA2 cores.
  3. Direct current resistance is based on 61.2% IACS for 1350 wires and 8% IACS for the steel core at 20 °C.
  4. Consult IEEE 738: Standard for Calculating the Current-Temperature of Bare Overhead Conductors or contact CME Wire and Cable for assistance.
  5. The above data are an estimate based on given criteria and subject to normal manufacturing tolerances.
- \* Contact CME to review availability.

Technical Data *continued*

**Rated Strength of Standard ACSR (GA2 or MA2), ACSS (MA2 or MA3), and Equal Diameter ACSS/TW (MA2 or MA3) Conductors**  
(ASTM B232, B856 and B857)



**Comparison of Ampacity Estimates for Standard ACSR Equal Area ACSR/TW and Equal Diameter ACSR/TW Conductors**

(Based on conductor temperature of 75 °C, ambient temperature of 25 °C, 2 ft/s crosswind, 0.5 coefficient of emissivity, no sun, @ 60 Hz)

