

# ACSS/TW Aluminum Conductor Steel Supported

## Trapezoidal Shaped

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

### Construction

ACSS/TW, a nonhomogeneous conductor, is a trapezoidal shaped wire compact concentric-lay-stranded conductor made from aluminum 1350-O wires and round, coated steel core wire(s).

ACSS/TW conductors with equal area or equal diameter as compared to ACSS conductors are available for overhead lines. Steel wires are coated with Class A coating of zinc – 5% aluminum mischmetal alloy. Other Classes of coatings are also available for additional protection from corrosion. Standard, High, Extra and Ultra High Strength steel are also available.

### Specifications

ACSS/TW conductors are manufactured in accordance with the ASTM specification B857.

### Features

ACSS conductors are preferred over ACSR conductors for

specific transmission line applications:

- With zinc – 5% aluminum mischmetal alloy coating on steel wires, ACSS conductors can be operated up to 250 °C.
- ACSS conductors carry more current than ACSR conductors due to:
  - Minimum average conductivity of 63% IACS for 1350-O aluminum wires vs. an average conductivity of 61.2% for 1350-H19 aluminum wires in ACSR.
  - ACSS conductors can be operated up to 250 °C vs. the maximum operating temperature for an ACSR conductor does not exceed 100 °C.
- ACSS conductors are prone to resist the effects of aeolian vibration due to very little or no mechanical load on the annealed aluminum wires.
- Long term creep is not a factor when designing with ACSS conductors.

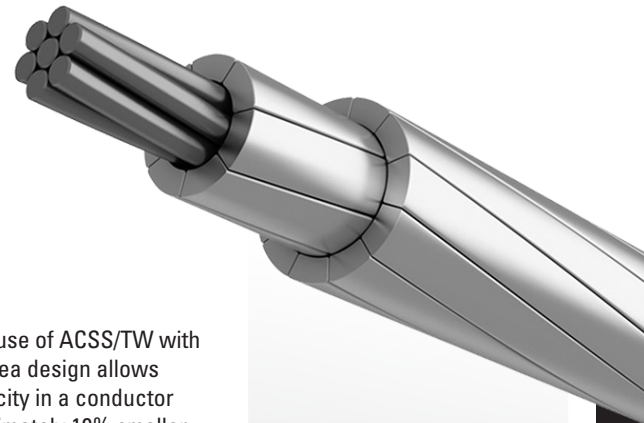
In addition, use of ACSS/TW with the equal area design allows equal ampacity in a conductor with approximately 10% smaller diameter over a standard ACSS with same area. This smaller diameter of equal area ACSS/TW conductors helps reduce the effects of ice and wind loading on the conductor.

Alternatively, use of ACSS/TW with equal diameter design provides a conductor in which the aluminum area is increased by approximately 20% – 25% over a standard ACSS 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

ACSS/TW/MA2 is standard.

*Other possibilities shown below.*



ALUMINUM CONDUCTOR

## Technical Data

### ACSS/TW Options

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

/NS: Non-Specular finish available for all ACSS products.

/AW: Aluminum-clad steel core – see ACSS/AW catalog sheet.

Technical Data *continued*

# ACSS/TW

Code Word	Size AWG or kcmil	Type	Stranding				Nominal Overall Diameter		Cross Section		Rated Strength		
			Aluminum		Steel		CDR	Steel Core	Al	Total	/MA2	/MA3	/MA5
			No. Al Wires	No. Al Layers	No. of Wires	Diameter in							
Flicker/ACSS/TW	477.0	13	18	2	7	0.0940	0.78	0.2820	0.3748	0.4234	13.0	14.2	16.4
Hawk/ACSS/TW	477.0	16	18	2	7	0.1053	0.79	0.3159	0.3745	0.4355	15.6	17.1	19.8
Parakeet/ACSS/TW	556.5	13	18	2	7	0.1015	0.84	0.3045	0.4372	0.4938	15.2	16.6	19.1
Dove/ACSS/TW	556.5	16	20	2	7	0.1138	0.85	0.3414	0.4371	0.5083	18.2	19.9	23.1
Rook/ACSS/TW	636.0	13	18	2	7	0.1085	0.89	0.3255	0.4994	0.5641	17.3	19.0	21.9
Grosbeak/ACSS/TW	636.0	16	20	2	7	0.1216	0.91	0.3648	0.4996	0.5809	20.7	22.4	26.0
Tern/ACSS/TW	795.0	7	17	2	7	0.0888	0.96	0.2664	0.6247	0.6680	14.2	15.2	17.5
Puffin/ACSS/TW	795.0	11	21	2	7	0.1108	0.98	0.3324	0.6241	0.6916	18.9	20.6	23.7
Condor/ACSS/TW	795.0	13	21	2	7	0.1213	0.99	0.3639	0.6242	0.7051	21.7	23.3	26.9
Drake/ACSS/TW	795.0	16	20	2	7	0.1360	1.01	0.4080	0.6242	0.7259	25.9	28.0	32.5
Phoenix/ACSS/TW	954.0	5	30	3	7	0.0837	1.04	0.2511	0.7497	0.7882	14.2	15.2	17.1
Rail/ACSS/TW	954.0	7	32	3	7	0.0971	1.06	0.2913	0.7493	0.8011	16.7	18.0	20.4
Cardinal/ACSS/TW	954.0	13	20	2	7	0.1329	1.08	0.3987	0.7492	0.8463	26.0	28.0	32.3
Snowbird/ACSS/TW	1033.5	5	30	3	7	0.0871	1.09	0.2613	0.8115	0.8532	15.4	16.4	18.5
Ortolan/ACSS/TW	1033.5	7	33	3	7	0.1010	1.10	0.3030	0.8112	0.8673	18.1	19.5	22.0
Curlew/ACSS/TW	1033.5	13	21	2	7	0.1383	1.13	0.4149	0.8118	0.9170	28.2	30.3	35.0
Avocet/ACSS/TW	1113.0	5	30	3	7	0.0904	1.13	0.2712	0.8737	0.9186	16.3	17.5	19.5
Bluejay/ACSS/TW	1113.0	7	33	3	7	0.1049	1.14	0.3147	0.8746	0.9351	19.5	21.0	23.8
Finch/ACSS/TW	1113.0	13	39	3	19	0.0862	1.18	0.4310	0.8737	0.9845	30.4	33.2	38.7
Oxbird/ACSS/TW	1192.5	5	30	3	7	0.0936	1.17	0.2808	0.9361	0.9843	17.5	18.7	20.9
Bunting/ACSS/TW	1192.5	7	33	3	7	0.1086	1.18	0.3258	0.9368	1.0016	20.9	22.5	25.5
Grackle/ACSS/TW	1192.5	13	39	3	19	0.0892	1.22	0.4460	0.9369	1.0556	32.6	35.5	41.5
Scissortail/ACSS/TW	1272.0	5	30	3	7	0.0967	1.20	0.2901	0.9994	1.0508	18.7	20.0	22.3
Bittern/ACSS/TW	1272.0	7	33	3	7	0.1121	1.22	0.3363	0.9994	1.0685	22.3	24.0	27.2
Pheasant/ACSS/TW	1272.0	13	39	3	19	0.0921	1.26	0.4605	0.9987	1.1252	34.1	37.3	43.0
Dipper/ACSS/TW	1351.5	7	33	3	7	0.1155	1.25	0.3465	1.0616	1.1350	23.7	25.5	28.8
Martin/ACSS/TW	1351.5	13	39	3	19	0.0949	1.30	0.4745	1.0610	1.1954	36.2	39.6	45.6
Bobolink/ACSS/TW	1431.0	7	33	3	7	0.1189	1.29	0.3567	1.1243	1.2020	25.1	27.0	30.5
Plover/ACSS/TW	1431.0	13	39	3	19	0.0977	1.33	0.4885	1.1242	1.2666	38.4	41.9	48.3
Lapwing/ACSS/TW	1590.0	7	36	3	7	0.1253	1.36	0.3759	1.2488	1.3351	27.9	29.6	33.5
Falcon/ACSS/TW	1590.0	13	39	3	19	0.1030	1.40	0.5150	1.2483	1.4066	42.6	46.6	53.7
Chukar/ACSS/TW	1780.0	8	38	3	19	0.0874	1.45	0.4370	1.3982	1.5122	35.3	38.2	43.9
Bluebird/ACSS/TW*	2156.0	8	64	4	19	0.0961	1.61	0.4805	1.6934	1.8312	42.1	45.5	51.7

- Code words shown are for standard ACSS/TW/MA2 conductor. See the options for other applicable code word modifiers.
  - Rated strengths shown are applicable for ACSS/MA2 and ACSS/MA3 cores.
  - Direct current resistance is based on 63% 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*

# ACSS/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							
Flicker/ACSS/TW	477.0	13	448	164	612	73.14	26.86	0.0347	0.0356	0.0428	0.0259	0.5375	0.0839
Hawk/ACSS/TW	477.0	16	448	206	655	68.47	31.53	0.0346	0.0354	0.0426	0.0266	0.5349	0.0834
Parakeet/ACSS/TW	556.5	13	522	192	714	73.15	26.85	0.0297	0.0305	0.0367	0.0279	0.5259	0.0822
Dove/ACSS/TW	556.5	16	523	241	764	68.45	31.55	0.0296	0.0304	0.0366	0.0287	0.5232	0.0816
Rook/ACSS/TW	636.0	13	597	219	816	73.15	26.85	0.0260	0.0268	0.0321	0.0298	0.5159	0.0808
Grosbeak/ACSS/TW	636.0	16	598	275	873	68.47	31.53	0.0259	0.0267	0.0320	0.0307	0.5129	0.0801
Tern/ACSS/TW	795.0	7	745	147	892	83.54	16.46	0.0209	0.0217	0.0260	0.0315	0.5042	0.0795
Puffin/ACSS/TW	795.0	11	746	229	974	76.55	23.45	0.0209	0.0216	0.0259	0.0327	0.5009	0.0786
Condor/ACSS/TW	795.0	13	746	274	1020	73.15	26.85	0.0208	0.0215	0.0258	0.0333	0.4987	0.0782
Drake/ACSS/TW	795.0	16	747	344	1091	68.45	31.55	0.0207	0.0214	0.0257	0.0342	0.4962	0.0776
Phoenix/ACSS/TW	954.0	5	898	130	1028	87.32	12.68	0.0176	0.0184	0.0221	0.0343	0.4910	0.0775
Rail/ACSS/TW	954.0	7	899	175	1074	83.66	16.34	0.0175	0.0183	0.0220	0.0350	0.4889	0.0771
Cardinal/ACSS/TW	954.0	13	895	329	1224	73.15	26.85	0.0173	0.0180	0.0216	0.0364	0.4851	0.0762
Snowbird/ACSS/TW	1033.5	5	972	141	1114	87.32	12.68	0.0162	0.0170	0.0204	0.0357	0.4844	0.0766
Ortolan/ACSS/TW	1033.5	7	973	190	1163	83.68	16.32	0.0162	0.0170	0.0204	0.0364	0.4829	0.0762
Curlew/ACSS/TW	1033.5	13	970	356	1326	73.15	26.85	0.0160	0.0167	0.0200	0.0379	0.4787	0.0752
Avocet/ACSS/TW	1113.0	5	1047	152	1199	87.32	12.68	0.0150	0.0159	0.0190	0.0370	0.4790	0.0758
Bluejay/ACSS/TW	1113.0	7	1048	205	1253	83.66	16.34	0.0150	0.0158	0.0190	0.0377	0.4772	0.0753
Finch/ACSS/TW	1113.0	13	1051	376	1427	73.64	26.36	0.0150	0.0156	0.0192	0.0399	0.4716	0.0740
Oxbird/ACSS/TW	1192.5	5	1122	163	1285	87.31	12.69	0.0140	0.0149	0.0178	0.0382	0.4738	0.0750
Bunting/ACSS/TW	1192.5	7	1123	220	1343	83.65	16.35	0.0140	0.0148	0.0178	0.0390	0.4720	0.0746
Grackle/ACSS/TW	1192.5	13	1126	403	1529	73.65	26.35	0.0140	0.0147	0.0179	0.0412	0.4665	0.0733
Scissortail/ACSS/TW	1272.0	5	1197	174	1371	87.30	12.70	0.0132	0.0140	0.0168	0.0394	0.4690	0.0743
Bittern/ACSS/TW	1272.0	7	1198	234	1432	83.67	16.33	0.0131	0.0140	0.0167	0.0402	0.4672	0.0739
Pheasant/ACSS/TW	1272.0	13	1201	429	1630	73.66	26.34	0.0131	0.0138	0.0169	0.0424	0.4619	0.0726
Dipper/ACSS/TW	1351.5	7	1273	248	1521	83.68	16.32	0.0124	0.0132	0.0158	0.0414	0.4626	0.0732
Martin/ACSS/TW	1351.5	13	1276	456	1732	73.68	26.32	0.0123	0.0130	0.0159	0.0437	0.4572	0.0719
Bobolink/ACSS/TW	1431.0	7	1348	263	1611	83.67	16.33	0.0117	0.0125	0.0150	0.0427	0.4578	0.0725
Plover/ACSS/TW	1431.0	13	1351	483	1834	73.66	26.34	0.0116	0.0124	0.0151	0.0450	0.4527	0.0713
Lapwing/ACSS/TW	1590.0	7	1498	292	1790	83.67	16.33	0.0105	0.0114	0.0145	0.0450	0.4495	0.0712
Falcon/ACSS/TW	1590.0	13	1501	537	2038	73.65	26.35	0.0105	0.0112	0.0163	0.0473	0.4448	0.0701
Chukar/ACSS/TW	1780.0	8	1674	387	2061	81.24	18.76	0.0094	0.0103	0.0124	0.0482	0.4398	0.0697
Bluebird/ACSS/TW*	2156.0	8	2045	467	2512	81.39	18.61	0.0078	0.0088	0.0103	0.0538	0.4229	0.0672

- Code words shown are for standard ACSS/TW/MA2 conductor. See the options for other applicable code word modifiers.
  - Rated strengths shown are applicable for ACSS/MA2 and ACSS/MA3 cores.
  - Direct current resistance is based on 63% 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.
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- \* Contact CME to review availability.

Technical Data *continued*

# ACSS/TW

Code Word	Size AWG or kcmil	Type	Stranding				Nominal Overall Diameter		Cross Section		Rated Strength		
			Aluminum		Steel		CDR	Steel Core	Aluminum	Total	/MA2	/MA3	/MA5
			No. Al Wires	No. Al Layers	No. of Wires	Diameter in							
Mohawk/ACSS/TW	571.7	13	18	2	7	0.1030	0.846	0.3090	0.4489	0.5072	15.6	17.1	19.7
Calumet/ACSS/TW	565.3	16	20	2	7	0.1146	0.858	0.3438	0.4438	0.5161	18.4	20.2	23.5
Mystic/ACSS/TW	666.6	13	20	2	7	0.1111	0.913	0.3333	0.5236	0.5915	18.2	19.9	22.9
Oswego/ACSS/TW	664.8	16	20	2	7	0.1244	0.927	0.3732	0.5222	0.6073	21.7	23.4	27.2
Maumee/ACSS/TW	768.2	13	20	2	7	0.1195	0.977	0.3585	0.6032	0.6817	21.0	23.0	26.5
Wabash/ACSS/TW	762.8	16	20	2	7	0.1331	0.990	0.3993	0.5989	0.6963	24.9	26.8	31.2
Kettle/ACSS/TW	957.2	7	32	3	7	0.0973	1.060	0.2919	0.7518	0.8038	16.8	18.1	20.4
Suwannee/ACSS/TW	959.6	16	22	2	7	0.1493	1.108	0.4479	0.7539	0.8764	30.7	33.1	38.6
Cheyenne/ACSS/TW	1168.1	5	30	3	7	0.0926	1.155	0.2778	0.9170	0.9642	17.2	18.3	20.4
Genesee/ACSS/TW	1158.0	7	33	3	7	0.1078	1.165	0.3234	0.9094	0.9732	20.5	22.1	25.0
Hudson/ACSS/TW	1158.4	13	26	2	7	0.1467	1.196	0.4401	0.9096	1.0279	31.1	33.5	38.8
Catawba/ACSS/TW	1272.0	5	30	3	7	0.0967	1.203	0.2901	0.9993	1.0507	18.7	20.0	22.3
Nelson/ACSS/TW	1257.1	7	35	3	7	0.1115	1.213	0.3345	0.9875	1.0558	22.1	23.8	26.9
Yukon/ACSS/TW	1233.6	13	38	3	19	0.0910	1.250	0.4550	0.9685	1.0921	33.2	36.3	41.9
Truckee/ACSS/TW	1372.5	5	30	3	7	0.1004	1.248	0.3012	1.0783	1.1337	20.2	21.5	24.0
Mackenzie/ACSS/TW	1359.7	7	36	3	7	0.1159	1.259	0.3477	1.0674	1.1413	23.9	25.7	29.0
Thames/ACSS/TW	1334.6	13	39	3	19	0.0944	1.290	0.4720	1.0479	1.1808	35.8	39.1	45.1
St.Croix/ACSS/TW	1467.8	5	30	3	7	0.1041	1.292	0.3123	1.1532	1.2127	21.6	23.1	25.8
Miramichi/ACSS/TW	1455.3	7	36	3	7	0.1200	1.299	0.3600	1.1427	1.2219	25.6	27.1	30.7
Merrimack/ACSS/TW	1433.6	13	44	3	19	0.0978	1.340	0.4890	1.1255	1.2682	38.4	42.0	48.4
Platte/ACSS/TW	1569.0	5	33	3	7	0.1074	1.334	0.3222	1.2328	1.2962	23.1	24.6	27.5
Potomac/ACSS/TW	1557.4	7	36	3	7	0.1241	1.345	0.3723	1.2237	1.3084	27.3	29.0	32.8
Rio Grande/ACSS/TW	1533.3	13	39	3	19	0.1012	1.379	0.5060	1.2046	1.3574	41.2	45.0	51.9
Schuykill/ACSS/TW	1657.4	7	36	3	7	0.1280	1.386	0.3840	1.3012	1.3912	29.1	30.9	34.9
Pecos/ACSS/TW	1622.0	13	39	3	19	0.1064	1.424	0.5320	1.2736	1.4425	45.0	49.3	56.9
Pee Dee/ACSS/TW	1758.6	7	37	3	7	0.1319	1.431	0.3957	1.3811	1.4768	30.9	32.8	37.1
James/ACSS/TW	1730.6	13	39	3	19	0.1075	1.470	0.5375	1.3598	1.5322	46.4	50.8	58.5
Athabaska/ACSS/TW	1949.6	7	42	3	7	0.1392	1.504	0.4176	1.5318	1.6384	34.3	36.5	40.8
Cumberland/ACSS/TW	1926.9	13	42	3	19	0.1133	1.545	0.5665	1.5129	1.7044	51.6	56.4	65.0
Santee/ACSS/TW*	2627.3	8	64	4	19	0.1062	1.762	0.5310	2.0645	2.2328	51.3	55.6	63.1

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  - Rated strengths shown are applicable for ACSS/MA2 and ACSS/MA3 cores.
  - Direct current resistance is based on 63% 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.
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Technical Data *continued*

# ACSS/TW

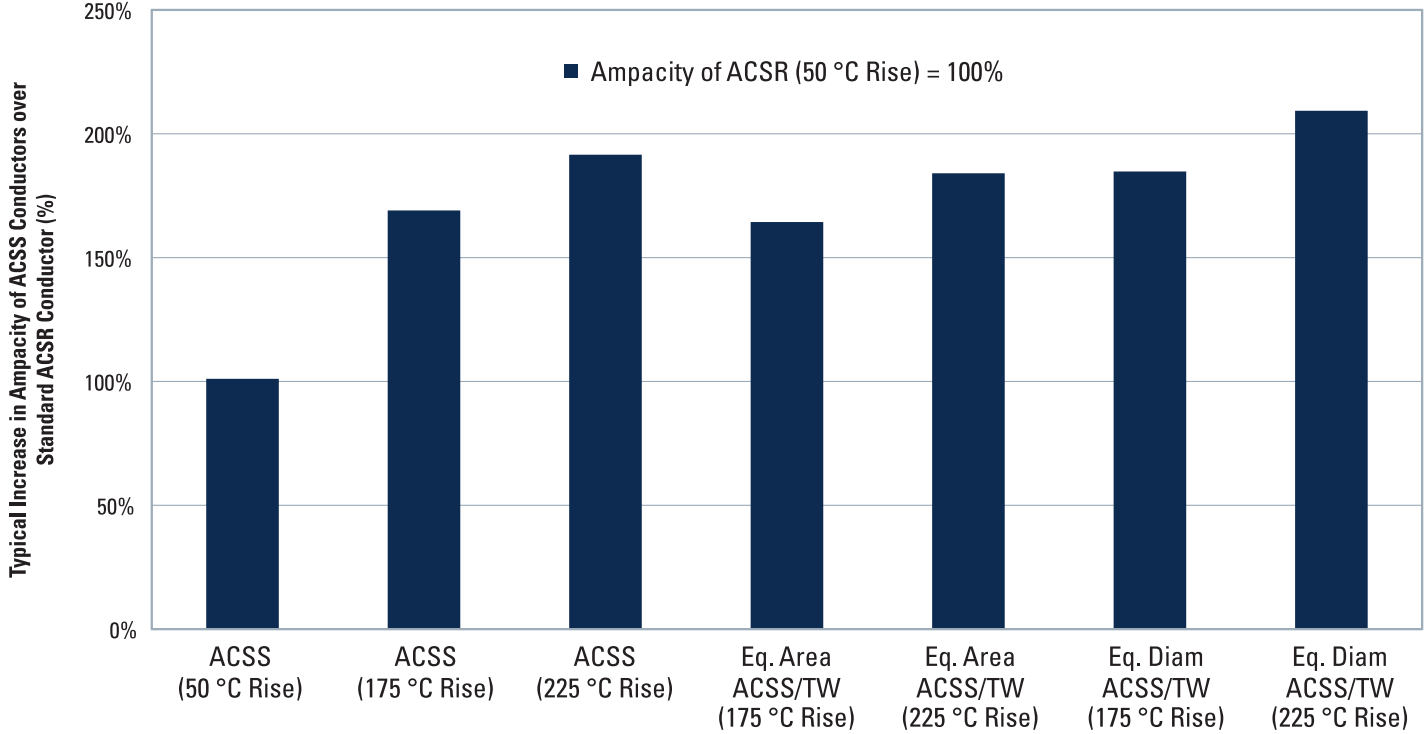
Code Word	Size AWG or kcmil	Type	Mass			Percent of Total Mass		Resistance			GMR ft	Reactance	
			Al	Steel	Total	Al	Steel	dc	ac – 60 Hz			Capacitive MΩ/kft	Inductive Ω/kft
								20 °C	25 °C	75 °C			
			lb/kft			Ω/kft							
Mohawk/ACSS/TW	571.7	13	537	197	734	73.10	26.90	0.0298	0.0306	0.0365	0.0283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

- Code words shown are for standard ACSS/TW/MA2 conductor. See the options for other applicable code word modifiers.
  - Rated strengths shown are applicable for ACSS/MA2 and ACSS/MA3 cores.
  - Direct current resistance is based on 63% 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**

**Typical Increase in Ampacity of ACSS, Equal Area ACSS/TW, and Equal Diameter ACSS/TW Conductors vs. Ampacity of ACSR Conductors (50 °C Rise)**

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



**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)

