Max Storm™ Overhead Conductor – ZTACSR/TW/MA5

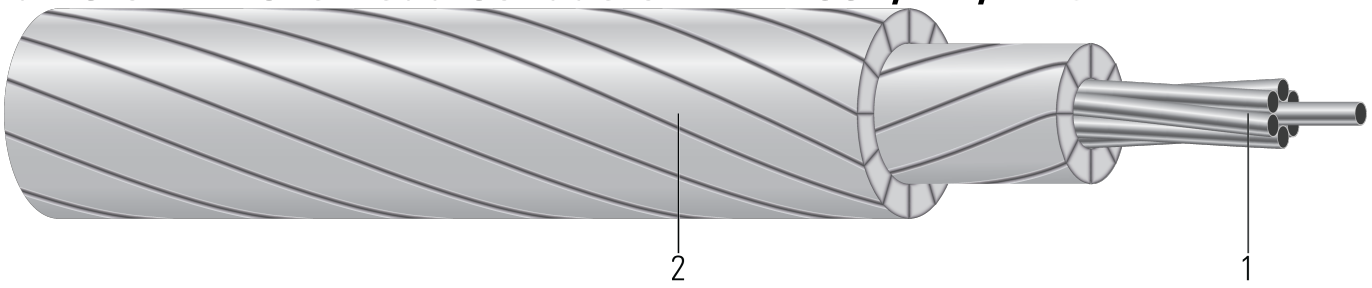


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Core:** Stranded ultra-high-strength steel core with a zinc-5% aluminum-mischmetal alloy coating for corrosion protection
2. **Stranding:** Thermal-resistant aluminum-zirconium (Al-Zr) trapezoidal-shaped wires with 60% conductivity

APPLICATIONS AND FEATURES:

Max Storm™ overhead conductor is a shaped-wire, compact, thermal-resistant aluminum-alloy conductor reinforced with an ultra-high-strength steel core. The Al-Zr strands provide elevated-temperature capability while retaining strength, and the MA5 core supports higher stringing tensions and demanding mechanical loads.

The trapezoidal-wire construction reduces conductor diameter relative to comparable round-wire constructions, helping reduce ice accumulation and wind loading. Max Storm is designed for transmission lines where extreme ice, high wind, long spans, or clearance preservation govern conductor and structure design.

The combination of thermal-resistant Al-Zr strands, compact geometry, and an ultra-high-strength mischmetal-coated core provides high-temperature capacity together with mechanical ruggedness for system-hardening applications.

Continuous operating temperature - 210°C
Emergency operating temperature - 240°C

SPECIFICATIONS:

- ASTM B500 Standard Specification for Metallic Coated or Aluminum-Clad Stranded Steel Core for Use in Overhead Electrical Conductors
- ASTM B779 Standard Specification for Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Steel-Reinforced (ACSR/TW)
- ASTM B941 Standard Specification for Heat Resistant Aluminum-Zirconium Alloy Wire for Electrical Purposes
- ASTM B958 Standard Specification for Extra-High-Strength and Ultra-High-Strength Class A Zinc–5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Use in Overhead Electrical Conductors

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Area Equal to Standard ACSR Conductor - Weights, Measurements, Electrical and Engineering Data

Stock Number	Code Word	Conductor Size	Type No.	Stranding	Cross-Sectional Area		Layers of Al-Zr	Diameter			Weight		Rated Breaking Strength	DC Resistance @ 20°C
					Al-Zr	Total		Steel Strands	Steel Core	Complete Conductor	Al-Zr	Total		
		kcmil		Al-Zr/St	in²	in²		in	in	in	lb/ 1000 ft	lb/ 1000 ft	lb	Ω/mile
TBA	Partridge/TW/Max Storm	266.8	16	14/7	0.2095	0.2436	2	0.0788	0.2364	0.595	250.6	366.0	14,000	0.3422
TBA	Merlin/TW/Max Storm	336.4	6	14/1	0.2642	0.2789	2	0.1367	0.1367	0.630	315.3	364.9	9,580	0.2746
TBA	Linnet/TW/Max Storm	336.4	16	16/7	0.2642	0.3072	2	0.0884	0.2652	0.659	316.1	461.7	17,700	0.2713
TBA	Oriole/TW/Max Storm	336.4	23	16/7	0.2642	0.3259	2	0.1059	0.3177	0.692	317.6	526.5	22,200	0.2701
TBA	Ibis/TW/Max Storm	397.5	16	20/7	0.3122	0.3630	2	0.0961	0.2883	0.725	373.5	545.5	20,400	0.2296
TBA	Lark/TW/Max Storm	397.5	23	16/7	0.3122	0.3850	2	0.1151	0.3453	0.740	375.3	621.8	26,000	0.2286
TBA	Flicker/TW/Max Storm	477.0	13	18/7	0.3746	0.4232	2	0.0940	0.2820	0.776	447.7	612.2	21,000	0.1920
TBA	Hawk/TW/Max Storm	477.0	16	18/7	0.3746	0.4356	2	0.1053	0.3159	0.790	448.1	654.6	24,300	0.1914
TBA	Hen/TW/Max Storm	477.0	23	20/7	0.3746	0.4620	2	0.1261	0.3783	0.820	450.3	746.2	30,800	0.1905
TBA	Parakeet/TW/Max Storm	556.5	13	18/7	0.4371	0.4937	2	0.1015	0.3045	0.840	522.4	714.0	24,500	0.1646
TBA	Dove/TW/Max Storm	556.5	16	20/7	0.4371	0.5083	2	0.1138	0.3414	0.850	522.9	763.9	28,300	0.1640
TBA	Eagle/TW/Max Storm	556.5	23	20/7	0.4371	0.5391	2	0.1362	0.4086	0.870	525.5	870.8	36,000	0.1633
TBA	Squab/TW/Max Storm	605.0	16	20/7	0.4752	0.5525	2	0.1186	0.3558	0.885	568.5	830.2	30,800	0.1509
TBA	Teal/TW/Max Storm	605.0	23	20/19	0.4752	0.5835	2	0.0852	0.4260	0.916	571.3	938.7	39,100	0.1503
TBA	Swift/TW/Max Storm	636.0	3	27/1	0.4995	0.5134	3	0.1329	0.1329	0.850	598.4	645.3	14,500	0.1463
TBA	Rook/TW/Max Storm	636.0	13	20/7	0.4995	0.5642	2	0.1085	0.3255	0.893	597.0	816.0	28,000	0.1440
TBA	Grosbeak/TW/ Max Storm	636.0	16	20/7	0.4995	0.5808	2	0.1216	0.3648	0.909	597.6	872.8	32,000	0.1435
TBA	Scoter/TW/Max Storm	636.0	23	22/7	0.4995	0.6160	2	0.1456	0.4368	0.942	600.5	994.9	40,600	0.1429
TBA	Egret/TW/Max Storm	636.0	23	22/19	0.4995	0.6135	2	0.0874	0.4370	0.942	600.5	987.2	41,100	0.1430
TBA	Starling/TW/Max Storm	715.5	16	20/7	0.5620	0.6535	2	0.1290	0.3870	0.958	672.3	982.1	35,700	0.1276
TBA	Redwing/TW/Max Storm	715.5	23	20/19	0.5620	0.6900	2	0.0926	0.4630	0.994	675.6	1110	44,700	0.1271
TBA	Tern/TW/Max Storm	795.0	7	20/7	0.6244	0.6676	2	0.0886	0.2658	0.960	745.2	891.5	25,200	0.1160
TBA	Puffin/TW/Max Storm	795.0	10	18/7	0.6244	0.6857	2	0.1056	0.3168	0.980	745.9	953.4	29,500	0.1156
TBA	Condor/TW/Max Storm	795.0	13	20/7	0.6244	0.7053	2	0.1213	0.3639	0.993	746.3	1020	34,300	0.1152
TBA	Drake/TW/Max Storm	795.0	16	20/7	0.6244	0.7261	2	0.1360	0.4080	1.010	747.0	1091	39,700	0.1148

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Stock Number	Code Word	Conductor Size	Type No.	Stranding	Cross-Sectional Area		Layers of Al-Zr	Diameter			Weight		Rated Breaking Strength	DC Resistance @ 20°C
					Al-Zr	Total		Steel Strands	Steel Core	Complete Conductor	Al-Zr	Total		
		kcmil		Al-Zr/St	in²	in²		in	in	in	lb/ 1000 ft	lb/ 1000 ft	lb	Ω/mile
TBA	Mallard/TW/Max Storm	795.0	23	22/19	0.6244	0.7668	2	0.0977	0.4885	1.050	750.6	1234	49,800	0.1144
TBA	Canary/TW/Max Storm	900.0	13	20/7	0.7069	0.7985	2	0.1291	0.3873	1.055	844.9	1155	38,900	0.1018
TBA	Phoenix/TW/Max Storm	954.0	5	30/7	0.7493	0.7878	3	0.0837	0.2511	1.044	897.7	1028	26,600	0.0972
TBA	Rail/TW/Max Storm	954.0	7	32/7	0.7493	0.8011	3	0.0971	0.2913	1.061	898.6	1074	29,700	0.0971
TBA	Cardinal/TW/Max Storm	954.0	13	20/7	0.7493	0.8464	2	0.1329	0.3987	1.080	895.5	1224	41,200	0.0960
TBA	Canvasback/TW/ Max Storm	954.0	23	24/19	0.7493	0.9201	2	0.1070	0.5350	1.149	900.8	1480	59,700	0.0953
TBA	Snowbird/TW/ Max Storm	1033.5	5	30/7	0.8117	0.8535	3	0.0872	0.2616	1.089	972.5	1114	28,400	0.0898
TBA	Ortolan/TW/Max Storm	1033.5	7	34/7	0.8117	0.8678	3	0.1010	0.3030	1.102	973.4	1163	32,200	0.0896
TBA	Curlew/TW/Max Storm	1033.5	13	22/7	0.8117	0.9169	2	0.1383	0.4149	1.131	970.1	1326	44,600	0.0886
TBA	Avocet/TW/Max Storm	1113.0	5	30/7	0.8741	0.9190	3	0.0904	0.2712	1.130	1047	1199	30,200	0.0834
TBA	Bluejay/TW/Max Storm	1113.0	7	34/7	0.8741	0.9346	3	0.1049	0.3147	1.143	1048	1253	34,700	0.0832
TBA	Finch/TW/Max Storm	1113.0	13	38/19	0.8741	0.9850	3	0.0862	0.4310	1.190	1051	1427	48,100	0.0828
TBA	Oxbird/TW/Max Storm	1192.5	5	30/7	0.9366	0.9848	3	0.0936	0.2808	1.170	1122	1285	32,300	0.0778
TBA	Bunting/TW/Max Storm	1192.5	7	34/7	0.9366	1.0013	3	0.1085	0.3255	1.181	1123	1342	36,700	0.0777
TBA	Grackle/TW/Max Storm	1192.5	13	38/19	0.9366	1.0553	3	0.0892	0.4460	1.225	1126	1529	51,500	0.0773
TBA	Scissortail/TW/ Max Storm	1272.0	5	30/7	0.9990	1.0504	3	0.0967	0.2901	1.203	1197	1371	34,500	0.0729
TBA	Bittern/TW/Max Storm	1272.0	7	38/7	0.9990	1.0681	3	0.1121	0.3363	1.224	1198	1432	39,600	0.0728
TBA	Pheasant/TW/Max Storm	1272.0	13	39/19	0.9990	1.1256	3	0.0921	0.4605	1.260	1201	1631	53,700	0.0725
TBA	Dipper/TW/Max Storm	1351.5	7	36/7	1.0615	1.1348	3	0.1155	0.3465	1.256	1273	1521	41,600	0.0686
TBA	Martin/TW/Max Storm	1351.5	13	42/19	1.0615	1.1959	3	0.0949	0.4745	1.300	1276	1732	57,100	0.0682
TBA	Bobolink/TW/Max Storm	1431.0	7	36/7	1.1239	1.2016	3	0.1189	0.3567	1.290	1348	1611	44,000	0.0647
TBA	Plover/TW/Max Storm	1431.0	13	40/19	1.1239	1.2663	3	0.0977	0.4885	1.337	1351	1834	59,900	0.0644
TBA	Lapwing/TW/Max Storm	1590.0	7	36/7	1.2488	1.3351	3	0.1253	0.3759	1.358	1498	1790	48,500	0.0583
TBA	Falcon/TW/Max Storm	1590.0	13	42/19	1.2488	1.4071	3	0.1030	0.5150	1.410	1501	2038	66,600	0.0580
TBA	Chukar/TW/Max Storm	1780.0	8	38/19	1.3980	1.5120	3	0.0874	0.4370	1.445	1674	2061	59,500	0.0519
TBA	Bluebird/TW/Max Storm	2156.0	8	64/19	1.6933	1.8311	4	0.0961	0.4805	1.608	2045	2512	71,100	0.0432

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Diameter Equal to Standard ACSR Conductor - Weights, Measurements, Electrical and Engineering Data

Stock Number	Code Word	Conductor Size	Type No.	Stranding	ACSR with Equal Diameter			Cross-Sectional Area		Layers of Al-Zr	Diameter			Weight		Rated Breaking Strength	DC Resistance @ 20°C
					Code Word	Size	Stranding	Al-Zr	Total		Steel Strands	Steel Core	Complete Conductor	Al-Zr	Total		
		kcmil		Al-Zr/St		kcmil	Al-Zr/St	in²	in²		in	in	in	lb/ 1000 ft	lb/ 1000 ft	lb	Ω/mile
TBA	Monongahela/ TW/Max Storm	405.1	6	14/1	Merlin	336.4	18/1	0.3182	0.3363	2	0.1520	0.1520	0.680	379.7	440.7	11,600	0.2279
TBA	Calumet/TW/ Max Storm	565.3	16	20/7	Hawk	477.0	26/7	0.4440	0.5162	2	0.1146	0.3438	0.860	531.2	775.6	28,800	0.1615
TBA	Mohawk/TW/ Max Storm	571.7	13	18/7	Flicker	477.0	24/7	0.4490	0.5073	2	0.1030	0.3090	0.850	536.6	734.0	25,200	0.1602
TBA	Oswego/TW/ Max Storm	664.8	16	20/7	Dove	556.5	26/7	0.5221	0.6072	2	0.1244	0.3732	0.927	624.6	912.7	33,500	0.1373
TBA	Mystic/TW/ Max Storm	666.6	13	20/7	Parakeet	556.5	24/7	0.5235	0.5914	2	0.1111	0.3333	0.913	625.7	855.6	29,400	0.1374
TBA	Wabash/TW/ Max Storm	762.8	16	20/7	Grosbeak	636.0	26/7	0.5991	0.6965	2	0.1331	0.3993	0.990	716.7	1046	38,100	0.1197
TBA	Maumee/TW/ Max Storm	768.2	13	20/7	Rook	636.0	24/7	0.6033	0.6818	2	0.1195	0.3585	0.977	721.0	986.8	33,600	0.1192
TBA	Nechako/TW/ Max Storm	768.9	3	27/1	Swift	636.0	36/1	0.6039	0.6220	3	0.1520	0.1520	0.930	723.5	784.5	17,500	0.1210
TBA	Fraser/TW/ Max Storm	946.7	10	34/7	Puffin	795.0	22/7	0.7435	0.8167	3	0.1154	0.3462	1.077	892.5	1140	35,200	0.0976
TBA	Kettle/TW/Max Storm	957.2	7	32/7	Tern	795.0	45/7	0.7518	0.8038	3	0.0973	0.2919	1.060	901.6	1078	29,800	0.0968
TBA	Suwannee/TW/ Max Storm	959.6	16	22/7	Drake	795.0	26/7	0.7537	0.8762	2	0.1493	0.4479	1.110	901.7	1316	47,300	0.0951
TBA	Columbia/TW/ Max Storm	966.2	13	22/7	Condor	795.0	54/7	0.7589	0.8573	2	0.1338	0.4014	1.092	907.0	1240	41,700	0.0948
TBA	Genesee/TW/ Max Storm	1158.0	7	34/7	Rail	954.0	45/7	0.9095	0.9734	3	0.1078	0.3234	1.165	1091	1307	36,300	0.0800
TBA	Hudson/TW/ Max Storm	1158.4	13	24/7	Cardinal	954.0	54/7	0.9098	1.0281	2	0.1467	0.4401	1.196	1087	1488	49,500	0.0791
TBA	Cheyenne/TW/ Max Storm	1168.1	5	30/7	Phoenix	954.0	42/7	0.9174	0.9645	3	0.0926	0.2778	1.155	1099	1259	31,600	0.0794
TBA	Yukon/TW/Max Storm	1233.6	13	38/19	Curlew	1033.5	54/7	0.9689	1.0925	3	0.0910	0.4550	1.245	1165	1584	52,300	0.0747
TBA	Nelson/TW/ Max Storm	1257.1	7	36/7	Ortolan	1033.5	45/7	0.9873	1.0556	3	0.1115	0.3345	1.213	1184	1415	38,700	0.0737
TBA	Catawba/TW/ Max Storm	1272.0	5	30/7	Snowbird	1033.5	42/7	0.9990	1.0504	3	0.0967	0.2901	1.203	1197	1371	34,500	0.0729
TBA	Thames/TW/ Max Storm	1334.6	13	38/19	Finch	1113.0	54/19	1.0482	1.1812	3	0.0944	0.4720	1.290	1260	1711	55,900	0.0691
TBA	Mackenzie/ TW/Max Storm	1359.7	7	38/7	Bluejay	1113.0	45/7	1.0679	1.1418	3	0.1159	0.3477	1.260	1281	1531	41,800	0.0681
TBA	Truckee/TW/ Max Storm	1372.5	5	30/7	Avocet	1113.0	42/7	1.0780	1.1334	3	0.1004	0.3012	1.248	1292	1480	37,200	0.0676
TBA	Merrimack/ TW/Max Storm	1433.6	13	39/19	Grackle	1192.5	54/19	1.1259	1.2686	3	0.0978	0.4890	1.340	1354	1838	60,100	0.0643
TBA	Miramichi/TW/ Max Storm	1455.3	7	36/7	Bunting	1192.5	45/7	1.1430	1.2222	3	0.1200	0.3600	1.302	1371	1639	44,400	0.0637
TBA	St. Croix/TW/ Max Storm	1467.8	5	33/7	Oxbird	1192.5	42/7	1.1528	1.2124	3	0.1041	0.3123	1.292	1381	1583	39,900	0.0632

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Stock Number	Code Word	Conductor Size	Type No.	Stranding	ACSR with Equal Diameter			Cross-Sectional Area		Layers of Al-Zr	Diameter			Weight		Rated Breaking Strength	DC Resistance @ 20°C
					Code Word	Size	Stranding	Al-Zr	Total		Steel Strands	Steel Core	Complete Conductor	Al-Zr	Total		
		kcmil		Al-Zr/St		kcmil	Al-Zr/St	in²	in²		in	in	in	lb/1000 ft	lb/1000 ft	lb	Ω/mile
TBA	Rio Grande/TW/Max Storm	1533.3	13	38/19	Pheasant	1272.0	54/19	1.2043	1.3571	3	0.1012	0.5060	1.380	1448	1966	64,300	0.0601
TBA	Potomac/TW/Max Storm	1557.4	7	36/7	Bittern	1272.0	45/7	1.2232	1.3079	3	0.1241	0.3723	1.350	1467	1754	47,500	0.0595
TBA	Platte/TW/Max Storm	1569.0	5	33/7	Scissortail	1272.0	42/7	1.2323	1.2957	3	0.1074	0.3222	1.334	1476	1691	42,500	0.0591
TBA	Pecos/TW/Max Storm	1622.0	13	39/19	Martin	1351.5	54/19	1.2739	1.4428	3	0.1064	0.5320	1.420	1531	2104	69,900	0.0568
TBA	Schuylkill/TW/Max Storm	1657.4	7	36/7	Dipper	1351.5	45/7	1.3017	1.3918	3	0.1280	0.3840	1.386	1561	1866	50,600	0.0559
TBA	James/TW/Max Storm	1730.6	13	39/19	Plover	1431.0	54/19	1.3592	1.5316	3	0.1075	0.5375	1.470	1634	2219	72,500	0.0533
TBA	Pee Dee/TW/Max Storm	1758.6	7	38/7	Bobolink	1431.0	45/7	1.3812	1.4768	3	0.1319	0.3957	1.430	1656	1980	53,700	0.0527
TBA	Cumberland/TW/Max Storm	1926.9	13	42/19	Falcon	1590.0	54/19	1.5134	1.7050	3	0.1133	0.5665	1.550	1819	2469	80,700	0.0478
TBA	Athabaska/TW/Max Storm	1949.6	7	44/7	Lapwing	1590.0	45/7	1.5312	1.6377	3	0.1392	0.4176	1.504	1836	2197	59,700	0.0475
TBA	Powder/TW/Max Storm	2153.8	8	64/19	Chukar	1780.0	84/19	1.6916	1.8294	4	0.0961	0.4805	1.596	2043	2510	71,000	0.0432
TBA	Santee/TW/Max Storm	2627.3	8	64/19	Bluebird	2156.0	84/19	2.0635	2.2318	4	0.1062	0.5310	1.761	2492	3063	85,800	0.0354

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