# ACSR

Aluminum Conductor, Steel Reinforced

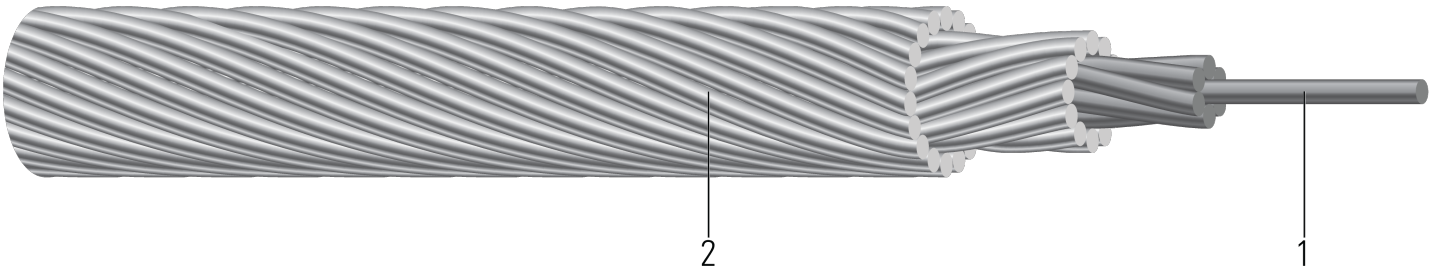


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Core:** Stranded standard strength steel core with Class A hot dipped zinc galvanization coating (also available in zinc-5% aluminum-mischmetal alloy coating)
2. **Stranding:** Hard-drawn aluminum (1350-H19) round wire shaped strands with 61.2% conductivity

## APPLICATIONS AND FEATURES:

**ACSR (Aluminum Conductor, Steel Reinforced)** is a concentrically stranded conductor consisting of one or more layers of hard-drawn aluminum (1350-H19) wires surrounding a galvanized (GA) or mischmetal (MA) steel core. The aluminum strands provide efficient electrical conductivity, while the steel core supplies high tensile strength and improved sag performance. ACSR is widely used for overhead transmission and distribution applications where a combination of ampacity, strength, and economical design is required.

Continuous operating temperature - 75°C
Emergency operating temperature - 100°C

## SPECIFICATIONS:

- ASTM B230 Standard Specification for Aluminum 1350-H19 Wire for Electrical Purposes
- ASTM B232 Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)
- ASTM B498 Standard Specification for Zinc-Coated (Galvanized) Steel Core Wire for Use in Overhead Electrical Conductors
- ASTM B802 Standard Specification for Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Use in Overhead Electrical Conductors


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## Weights, Measurements, Electrical and Engineering Data

| Stock Number | Code Word | Conductor Size | Stranding | Cross-Sectional Area | | Layers of Al | Diameter | | | | Weight | | Rated Breaking Strength | DC Resistance @ 20°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | Total | | Individual Strands | | Steel Core | Complete Conductor | Al | Total | | |
| | | AWG/kcmil | Al/St | in² | in² | | Al in | St in | in | in | lb/1000ft | lb/1000ft | lb | Ω/mile |
| TBA | TURKEY | 6 | 6/1 | 0.0206 | 0.0240 | 1 | 0.0661 | 0.0661 | 0.0661 | 0.198 | 24.46 | 35.92 | 1,190 | 3.3884 |
| TBA | THRUSH | 5 | 6/1 | 0.0260 | 0.0303 | 1 | 0.0743 | 0.0743 | 0.0743 | 0.223 | 30.88 | 45.38 | 1,490 | 2.6845 |
| TBA | SWAN | 4 | 6/1 | 0.0328 | 0.0383 | 1 | 0.0834 | 0.0834 | 0.0834 | 0.250 | 38.95 | 57.50 | 1,860 | 2.1273 |
| TBA | SWANATE | 4 | 7/1 | 0.0328 | 0.0411 | 1 | 0.0772 | 0.1029 | 0.1029 | 0.257 | 38.95 | 66.94 | 2,360 | 2.1040 |
| TBA | SWALLOW | 3 | 6/1 | 0.0413 | 0.0482 | 1 | 0.0936 | 0.0936 | 0.0936 | 0.281 | 49.05 | 72.32 | 2,290 | 1.6896 |
| TBA | SPARROW | 2 | 6/1 | 0.0522 | 0.0609 | 1 | 0.1052 | 0.1052 | 0.1052 | 0.316 | 61.99 | 91.33 | 2,850 | 1.3369 |
| TBA | SPARATE | 2 | 7/1 | 0.0522 | 0.0655 | 1 | 0.0974 | 0.1299 | 0.1299 | 0.325 | 61.99 | 106.8 | 3,640 | 1.3218 |
| TBA | ROBIN | 1 | 6/1 | 0.0657 | 0.0767 | 1 | 0.1181 | 0.1181 | 0.1181 | 0.354 | 78.02 | 115.1 | 3,550 | 1.0621 |
| TBA | RAVEN | 1/0 | 6/1 | 0.0830 | 0.0968 | 1 | 0.1327 | 0.1327 | 0.1327 | 0.398 | 98.57 | 145.1 | 4,380 | 0.8408 |
| TBA | QUAIL | 2/0 | 6/1 | 0.1045 | 0.1219 | 1 | 0.1489 | 0.1489 | 0.1489 | 0.447 | 124.1 | 182.8 | 5,300 | 0.6678 |
| TBA | BOBWHITE | 2/0 | 7/1 | 0.1045 | 0.1311 | 1 | 0.1379 | 0.1839 | 0.1839 | 0.460 | 124.1 | 213.8 | 6,840 | 0.6603 |
| TBA | PIGEON | 3/0 | 6/1 | 0.1317 | 0.1537 | 1 | 0.1672 | 0.1672 | 0.1672 | 0.502 | 156.4 | 230.6 | 6,620 | 0.5299 |
| TBA | PENGUIN | 4/0 | 6/1 | 0.1662 | 0.1939 | 1 | 0.1878 | 0.1878 | 0.1878 | 0.563 | 197.4 | 290.8 | 8,350 | 0.4199 |
| TBA | VULTURE | 4/0 | 5/1 | 0.1662 | 0.1810 | 1 | 0.2057 | 0.1371 | 0.1371 | 0.549 | 197.4 | 247.3 | 6,380 | 0.4242 |
| TBA | BARBET | 4/0 | 18/1 | 0.1661 | 0.1753 | 2 | 0.1084 | 0.1084 | 0.1084 | 0.542 | 198.2 | 229.2 | 5,660 | 0.4284 |
| TBA | BANTAM | 13.125 | 3/4 | 0.0103 | 0.0240 | 0.5 | 0.0661 | 0.0661 | --- | 0.198 | 12.23 | 58.93 | 2,790 | 5.8959 |
| TBA | MAGPIE | 20.87 | 3/4 | 0.0164 | 0.0383 | 0.5 | 0.0834 | 0.0834 | --- | 0.250 | 19.48 | 94.14 | 4,420 | 3.7008 |
| TBA | SHRIKE | 33.185 | 3/4 | 0.0261 | 0.0609 | 0.5 | 0.1052 | 0.1052 | --- | 0.316 | 31.00 | 149.6 | 6,830 | 2.3259 |
| TBA | SNIPE | 52.77 | 3/4 | 0.0414 | 0.0966 | 0.5 | 0.1326 | 0.1326 | --- | 0.398 | 49.16 | 237.4 | 10,500 | 1.4663 |
| TBA | ALBATROSS | 54.95 | 7/1 | 0.0432 | 0.0542 | 1 | 0.0886 | 0.1181 | 0.1181 | 0.295 | 51.30 | 88.39 | 3,080 | 1.5972 |
| TBA | SHOEBILL | 57.50 | 3/4 | 0.0451 | 0.1053 | 0.5 | 0.1384 | 0.1384 | --- | 0.415 | 53.56 | 258.8 | 11,500 | 1.3458 |
| TBA | LOON | 66.54 | 3/4 | 0.0522 | 0.1219 | 0.5 | 0.1489 | 0.1489 | --- | 0.447 | 61.99 | 299.6 | 12,600 | 1.1627 |
| TBA | GROUSE | 80.00 | 8/1 | 0.0628 | 0.0846 | 1 | 0.1000 | 0.1667 | 0.1667 | 0.367 | 74.95 | 148.5 | 5,190 | 1.0909 |
| TBA | PETREL | 101.8 | 12/7 | 0.0799 | 0.1265 | 1 | 0.0921 | 0.0921 | 0.2763 | 0.461 | 95.82 | 253.6 | 10,400 | 0.8364 |
| TBA | MINORCA | 110.8 | 12/7 | 0.0870 | 0.1378 | 1 | 0.0961 | 0.0961 | 0.2883 | 0.481 | 104.3 | 276.3 | 11,300 | 0.7681 |
| TBA | LEGHORN | 134.6 | 12/7 | 0.1057 | 0.1674 | 1 | 0.1059 | 0.1059 | 0.3177 | 0.530 | 126.8 | 335.7 | 13,600 | 0.6322 |
| TBA | GUINEA | 159.0 | 12/7 | 0.1249 | 0.1977 | 1 | 0.1151 | 0.1151 | 0.3453 | 0.576 | 149.8 | 396.3 | 16,000 | 0.5351 |
| TBA | DOTTEREL | 176.9 | 12/7 | 0.1389 | 0.2199 | 1 | 0.1214 | 0.1214 | 0.3642 | 0.607 | 166.6 | 440.8 | 17,300 | 0.4811 |
| TBA | DORKING | 190.8 | 12/7 | 0.1499 | 0.2373 | 1 | 0.1261 | 0.1261 | 0.3783 | 0.631 | 179.8 | 475.7 | 18,700 | 0.4458 |
| TBA | AUK | 203.0 | 8/7 | 0.1594 | 0.2025 | 1 | 0.1593 | 0.0885 | 0.2655 | 0.584 | 190.2 | 336.1 | 11,500 | 0.4341 |
| TBA | BRAHMA | 203.2 | 16/19 | 0.1596 | 0.3020 | 1 | 0.1127 | 0.0977 | 0.4885 | 0.714 | 191.4 | 674.5 | 28,400 | 0.4034 |
| TBA | COCHIN | 211.3 | 12/7 | 0.1660 | 0.2628 | 1 | 0.1327 | 0.1327 | 0.3981 | 0.664 | 199.1 | 526.8 | 20,700 | 0.4026 |
| TBA | JAEGER | 228.2 | 18/1 | 0.1792 | 0.1892 | 2 | 0.1126 | 0.1126 | 0.1126 | 0.563 | 213.9 | 247.6 | 6,020 | 0.3970 |
| TBA | OWL | 266.8 | 6/7 | 0.2096 | 0.2368 | 1 | 0.2109 | 0.0703 | 0.2109 | 0.633 | 248.9 | 341.0 | 9,680 | 0.3346 |
| TBA | WAXWING | 266.8 | 18/1 | 0.2094 | 0.2210 | 2 | 0.1217 | 0.1217 | 0.1217 | 0.609 | 249.9 | 289.0 | 6,880 | 0.3398 |
| TBA | SPOONBILL | 266.8 | 22/7 | 0.2095 | 0.2301 | 2 | 0.1101 | 0.0612 | 0.1836 | 0.624 | 251.2 | 320.9 | 8,720 | 0.3394 |
| TBA | SCAUP | 266.8 | 24/7 | 0.2094 | 0.2366 | 2 | 0.1054 | 0.0703 | 0.2109 | 0.633 | 251.1 | 343.2 | 10,000 | 0.3381 |
| TBA | PARTRIDGE | 266.8 | 26/7 | 0.2095 | 0.2436 | 2 | 0.1013 | 0.0788 | 0.2364 | 0.642 | 251.2 | 366.6 | 11,300 | 0.3365 |

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# Stock # 101659 | SPEC 80100

| Stock Number | Code Word | Conductor Size | Stranding | Cross-Sectional Area | | Layers of Al | Diameter | | | | Weight | | Rated Breaking Strength | DC Resistance @ 20°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | Total | | Individual Strands | | Steel Core | Complete Conductor | Al | Total | | |
| | | AWG/kcmil | Al/St | in² | in² | | Al in | St in | in | in | lb/1000ft | lb/1000ft | lb | Ω/mile |
| TBA | JUNCO | 266.8 | 30/7 | 0.2095 | 0.2584 | 2 | 0.0943 | 0.0943 | 0.2829 | 0.660 | 251.9 | 417.5 | 13,900 | 0.3342 |
| TBA | EIDER | 266.8 | 45/7 | 0.2095 | 0.2240 | 3 | 0.0770 | 0.0513 | 0.1539 | 0.616 | 251.2 | 300.3 | 7,980 | 0.3407 |
| TBA | RHEA | 286.2 | 18/19 | 0.2248 | 0.4621 | 1 | 0.1261 | 0.1261 | 0.6305 | 0.883 | 269.6 | 1075.0 | 45,100 | 0.2809 |
| TBA | PHOEBE | 300.0 | 18/1 | 0.2356 | 0.2487 | 2 | 0.1291 | 0.1291 | 0.1291 | 0.646 | 281.2 | 325.4 | 7,740 | 0.3020 |
| TBA | GADWALL | 300.0 | 24/7 | 0.2356 | 0.2661 | 2 | 0.1118 | 0.0745 | 0.2235 | 0.671 | 282.5 | 385.8 | 11,200 | 0.3005 |
| TBA | OSTRICH | 300.0 | 26/7 | 0.2355 | 0.2738 | 2 | 0.1074 | 0.0835 | 0.2505 | 0.680 | 282.4 | 412.1 | 12,700 | 0.2994 |
| TBA | PIPER | 300.0 | 30/7 | 0.2356 | 0.2906 | 2 | 0.1000 | 0.1000 | 0.3000 | 0.700 | 283.2 | 469.4 | 15,700 | 0.2972 |
| TBA | MERLIN | 336.4 | 18/1 | 0.2642 | 0.2789 | 2 | 0.1367 | 0.1367 | 0.1367 | 0.684 | 315.3 | 364.9 | 8,680 | 0.2693 |
| TBA | TROGON | 336.4 | 20/7 | 0.2642 | 0.2824 | 2 | 0.1297 | 0.0576 | 0.1728 | 0.692 | 316.8 | 378.4 | 9,470 | 0.2702 |
| TBA | WOODCOCK | 336.4 | 22/7 | 0.2644 | 0.2903 | 2 | 0.1237 | 0.0687 | 0.2061 | 0.701 | 317.1 | 404.8 | 10,900 | 0.2689 |
| TBA | WIDGEON | 336.4 | 24/7 | 0.2642 | 0.2984 | 2 | 0.1184 | 0.0789 | 0.2367 | 0.710 | 316.8 | 432.6 | 12,500 | 0.2680 |
| TBA | LINNET | 336.4 | 26/7 | 0.2640 | 0.3070 | 2 | 0.1137 | 0.0884 | 0.2652 | 0.720 | 316.6 | 462.2 | 14,100 | 0.2670 |
| TBA | ORIOLE | 336.4 | 30/7 | 0.2642 | 0.3259 | 2 | 0.1059 | 0.1059 | 0.3177 | 0.741 | 317.6 | 526.5 | 17,300 | 0.2650 |
| TBA | HUMMINGBIRD | 336.4 | 45/7 | 0.2644 | 0.2827 | 3 | 0.0865 | 0.0577 | 0.1731 | 0.692 | 317.1 | 379.1 | 9,960 | 0.2699 |
| TBA | CHICKADEE | 397.5 | 18/1 | 0.3122 | 0.3295 | 2 | 0.1486 | 0.1486 | 0.1486 | 0.743 | 372.6 | 430.9 | 9,940 | 0.2279 |
| TBA | PTARMIGAN | 397.5 | 20/7 | 0.3123 | 0.3339 | 2 | 0.1410 | 0.0627 | 0.1881 | 0.752 | 374.5 | 447.6 | 11,100 | 0.2285 |
| TBA | STORK | 397.5 | 22/7 | 0.3121 | 0.3428 | 2 | 0.1344 | 0.0747 | 0.2241 | 0.762 | 374.3 | 478.2 | 12,900 | 0.2278 |
| TBA | BRANT | 397.5 | 24/7 | 0.3122 | 0.3527 | 2 | 0.1287 | 0.0858 | 0.2574 | 0.772 | 374.4 | 511.5 | 14,600 | 0.2268 |
| TBA | IBIS | 397.5 | 26/7 | 0.3120 | 0.3628 | 2 | 0.1236 | 0.0961 | 0.2883 | 0.783 | 374.2 | 546.2 | 16,300 | 0.2260 |
| TBA | LARK | 397.5 | 30/7 | 0.3121 | 0.3849 | 2 | 0.1151 | 0.1151 | 0.3453 | 0.806 | 375.2 | 621.7 | 20,300 | 0.2244 |
| TBA | ERNE | 397.5 | 42/7 | 0.3123 | 0.3284 | 3 | 0.0973 | 0.0541 | 0.1623 | 0.746 | 374.5 | 429.0 | 10,600 | 0.2291 |
| TBA | LONGSPUR | 397.5 | 45/7 | 0.3123 | 0.3339 | 3 | 0.0940 | 0.0627 | 0.1881 | 0.752 | 374.5 | 447.6 | 11,600 | 0.2285 |
| TBA | PINTAIL | 419.0 | 30/7 | 0.3292 | 0.4060 | 2 | 0.1182 | 0.1182 | 0.3546 | 0.827 | 395.8 | 655.8 | 21,400 | 0.2127 |
| TBA | PELICAN | 477.0 | 18/1 | 0.3747 | 0.3955 | 2 | 0.1628 | 0.1628 | 0.1628 | 0.814 | 447.2 | 517.3 | 11,800 | 0.1899 |
| TBA | TAILORBIRD | 477.0 | 20/7 | 0.3745 | 0.4004 | 2 | 0.1544 | 0.0686 | 0.2058 | 0.823 | 449.1 | 536.8 | 13,100 | 0.1906 |
| TBA | TOUCAN | 477.0 | 22/7 | 0.3744 | 0.4112 | 2 | 0.1472 | 0.0818 | 0.2454 | 0.834 | 449.0 | 573.6 | 15,200 | 0.1899 |
| TBA | FLICKER | 477.0 | 24/7 | 0.3747 | 0.4233 | 2 | 0.1410 | 0.0940 | 0.2820 | 0.846 | 449.4 | 613.9 | 17,200 | 0.1890 |
| TBA | HAWK | 477.0 | 26/7 | 0.3744 | 0.4354 | 2 | 0.1354 | 0.1053 | 0.3159 | 0.858 | 449.0 | 655.5 | 19,500 | 0.1883 |
| TBA | HEN | 477.0 | 30/7 | 0.3747 | 0.4621 | 2 | 0.1261 | 0.1261 | 0.3783 | 0.883 | 450.5 | 746.4 | 23,800 | 0.1869 |
| TBA | KESTREL | 477.0 | 42/7 | 0.3748 | 0.3941 | 3 | 0.1066 | 0.0592 | 0.1776 | 0.817 | 449.5 | 514.8 | 12,400 | 0.1909 |
| TBA | JACKDAW | 477.0 | 45/7 | 0.3750 | 0.4009 | 3 | 0.1030 | 0.0687 | 0.2061 | 0.824 | 449.7 | 537.4 | 13,600 | 0.1903 |
| TBA | HERON | 500.0 | 30/7 | 0.3927 | 0.4843 | 2 | 0.1291 | 0.1291 | 0.3873 | 0.904 | 472.1 | 782.2 | 25,000 | 0.1783 |
| TBA | NIGHTINGALE | 517.0 | 20/7 | 0.4062 | 0.4343 | 2 | 0.1608 | 0.0715 | 0.2145 | 0.858 | 487.1 | 582.2 | 14,200 | 0.1757 |
| TBA | OSPREY | 556.5 | 18/1 | 0.4369 | 0.4612 | 2 | 0.1758 | 0.1758 | 0.1758 | 0.879 | 521.4 | 603.3 | 13,700 | 0.1629 |
| TBA | TODY | 556.5 | 20/7 | 0.4370 | 0.4672 | 2 | 0.1668 | 0.0741 | 0.2223 | 0.890 | 524.1 | 626.3 | 15,300 | 0.1633 |
| TBA | SAPSUCKER | 556.5 | 22/7 | 0.4368 | 0.4797 | 2 | 0.1590 | 0.0883 | 0.2649 | 0.901 | 523.8 | 669.0 | 17,600 | 0.1628 |
| TBA | PARAKEET | 556.5 | 24/7 | 0.4372 | 0.4938 | 2 | 0.1523 | 0.1015 | 0.3045 | 0.914 | 524.3 | 715.9 | 19,800 | 0.1620 |
| TBA | DOVE | 556.5 | 26/7 | 0.4371 | 0.5083 | 2 | 0.1463 | 0.1138 | 0.3414 | 0.927 | 524.2 | 765.2 | 22,600 | 0.1613 |
| TBA | EAGLE | 556.5 | 30/7 | 0.4371 | 0.5391 | 2 | 0.1362 | 0.1362 | 0.4086 | 0.953 | 525.5 | 870.8 | 27,800 | 0.1602 |
| TBA | BLACKBIRD | 556.5 | 42/7 | 0.4370 | 0.4594 | 3 | 0.1151 | 0.0639 | 0.1917 | 0.882 | 524.1 | 599.9 | 14,200 | 0.1637 |
| TBA | SUNBIRD | 556.5 | 45/7 | 0.4370 | 0.4672 | 3 | 0.1112 | 0.0741 | 0.2223 | 0.890 | 524.1 | 626.3 | 15,600 | 0.1633 |
| TBA | PEACOCK | 605.0 | 24/7 | 0.4753 | 0.5370 | 2 | 0.1588 | 0.1059 | 0.3177 | 0.953 | 570.0 | 778.9 | 21,600 | 0.1490 |



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# Stock # 101659 | SPEC 80100

| Stock Number | Code Word | Conductor Size | Stranding | Cross-Sectional Area | | Layers of Al | Diameter | | | | Weight | | Rated Breaking Strength | DC Resistance @ 20°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | Total | | Individual Strands | | Steel Core | Complete Conductor | Al | Total | | |
| | | AWG/kcmil | Al/St | in² | in² | | Al in | St in | in | in | lb/1000ft | lb/1000ft | lb | Ω/mile |
| TBA | SQUAB | 605.0 | 26/7 | 0.4749 | 0.5522 | 2 | 0.1525 | 0.1186 | 0.3558 | 0.966 | 569.5 | 831.2 | 24,300 | 0.1485 |
| TBA | WOOD DUCK | 605.0 | 30/7 | 0.4751 | 0.5860 | 2 | 0.1420 | 0.1420 | 0.4260 | 0.994 | 571.2 | 946.7 | 28,900 | 0.1474 |
| TBA | TEAL | 605.0 | 30/19 | 0.4751 | 0.5834 | 2 | 0.1420 | 0.0852 | 0.4260 | 0.994 | 571.2 | 938.6 | 30,000 | 0.1475 |
| TBA | SANDPIPER | 605.0 | 45/7 | 0.4756 | 0.5085 | 3 | 0.1160 | 0.0773 | 0.2319 | 0.928 | 570.4 | 681.8 | 17,000 | 0.1501 |
| TBA | DUCK | 605.0 | 54/7 | 0.4747 | 0.5362 | 3 | 0.1058 | 0.1058 | 0.3174 | 0.952 | 569.3 | 777.5 | 22,200 | 0.1492 |
| TBA | KINGBIRD | 636.0 | 18/1 | 0.4997 | 0.5275 | 2 | 0.1880 | 0.1880 | 0.1880 | 0.940 | 596.3 | 690.0 | 15,700 | 0.1424 |
| TBA | SWIFT | 636.0 | 36/1 | 0.4994 | 0.5133 | 3 | 0.1329 | 0.1329 | 0.1329 | 0.930 | 596.0 | 642.9 | 13,800 | 0.1430 |
| TBA | TURACOS | 636.0 | 20/7 | 0.4994 | 0.5339 | 2 | 0.1783 | 0.0792 | 0.2376 | 0.951 | 598.9 | 715.7 | 17,400 | 0.1429 |
| TBA | GOLDFINCH | 636.0 | 22/7 | 0.4994 | 0.5484 | 2 | 0.1700 | 0.0944 | 0.2832 | 0.963 | 598.9 | 764.8 | 19,800 | 0.1424 |
| TBA | ROOK | 636.0 | 24/7 | 0.4996 | 0.5643 | 2 | 0.1628 | 0.1085 | 0.3255 | 0.977 | 599.1 | 818.1 | 22,600 | 0.1417 |
| TBA | GROSBEAK | 636.0 | 26/7 | 0.4995 | 0.5808 | 2 | 0.1564 | 0.1216 | 0.3648 | 0.990 | 599.0 | 874.2 | 25,200 | 0.1411 |
| TBA | SCOTER | 636.0 | 30/7 | 0.4995 | 0.6160 | 2 | 0.1456 | 0.1456 | 0.4368 | 1.019 | 600.5 | 994.9 | 30,400 | 0.1402 |
| TBA | EGRET | 636.0 | 30/19 | 0.4995 | 0.6135 | 2 | 0.1456 | 0.0874 | 0.4370 | 1.019 | 600.5 | 987.2 | 31,500 | 0.1403 |
| TBA | PIPIT | 636.0 | 42/7 | 0.4999 | 0.5256 | 3 | 0.1231 | 0.0684 | 0.2052 | 0.944 | 599.5 | 686.5 | 16,100 | 0.1431 |
| TBA | KILLDEER | 636.0 | 45/7 | 0.4997 | 0.5343 | 3 | 0.1189 | 0.0793 | 0.2379 | 0.951 | 599.3 | 716.4 | 17,900 | 0.1428 |
| TBA | GOOSE | 636.0 | 54/7 | 0.4993 | 0.5640 | 3 | 0.1085 | 0.1085 | 0.3255 | 0.977 | 598.8 | 817.8 | 23,300 | 0.1418 |
| TBA | EDISON BIRD | 653.9 | 18/3 | 0.5136 | 0.5319 | 2 | 0.1906 | 0.0882 | 0.1905 | 0.762 | 612.9 | 675.5 | 14,800 | 0.1389 |
| TBA | FLAMINGO | 666.6 | 24/7 | 0.5238 | 0.5917 | 2 | 0.1667 | 0.1111 | 0.3333 | 1.000 | 628.2 | 858.1 | 23,700 | 0.1352 |
| TBA | GANNET | 666.6 | 26/7 | 0.5234 | 0.6086 | 2 | 0.1601 | 0.1245 | 0.3735 | 1.014 | 627.7 | 916.1 | 26,400 | 0.1347 |
| TBA | CROSSBILL | 666.6 | 45/7 | 0.5235 | 0.5597 | 3 | 0.1217 | 0.0811 | 0.2433 | 0.974 | 627.8 | 750.4 | 18,500 | 0.1363 |
| TBA | GULL | 666.6 | 54/7 | 0.5235 | 0.5914 | 3 | 0.1111 | 0.1111 | 0.3333 | 1.000 | 627.8 | 857.7 | 24,200 | 0.1353 |
| TBA | STILT | 715.5 | 24/7 | 0.5622 | 0.6350 | 2 | 0.1727 | 0.1151 | 0.3453 | 1.036 | 674.2 | 920.7 | 25,500 | 0.1259 |
| TBA | STARLING | 715.5 | 26/7 | 0.5620 | 0.6535 | 2 | 0.1659 | 0.1290 | 0.3870 | 1.051 | 674.0 | 983.8 | 28,400 | 0.1254 |
| TBA | BUTEO | 715.5 | 30/7 | 0.5617 | 0.6928 | 2 | 0.1544 | 0.1544 | 0.4632 | 1.081 | 675.3 | 1119.0 | 33,900 | 0.1247 |
| TBA | REDWING | 715.5 | 30/19 | 0.5617 | 0.6897 | 2 | 0.1544 | 0.0926 | 0.4630 | 1.081 | 675.3 | 1110 | 34,600 | 0.1248 |
| TBA | GREBE | 715.5 | 45/7 | 0.5620 | 0.6009 | 3 | 0.1261 | 0.0841 | 0.2523 | 1.009 | 674.0 | 806 | 19,900 | 0.1270 |
| TBA | CROW | 715.5 | 54/7 | 0.5619 | 0.6347 | 3 | 0.1151 | 0.1151 | 0.3453 | 1.036 | 673.9 | 920.4 | 26,000 | 0.1260 |
| TBA | COOT | 795.0 | 36/1 | 0.6244 | 0.6417 | 3 | 0.1486 | 0.1486 | 0.1486 | 1.040 | 745.2 | 803.5 | 16,800 | 0.1144 |
| TBA | TURBIT | 795.0 | 20/7 | 0.6246 | 0.6678 | 2 | 0.1994 | 0.0886 | 0.2658 | 1.063 | 749.1 | 895.4 | 21,800 | 0.1143 |
| TBA | PUFFIN | 795.0 | 22/7 | 0.6244 | 0.6857 | 2 | 0.1901 | 0.1056 | 0.3168 | 1.077 | 748.8 | 956.3 | 24,800 | 0.1139 |
| TBA | CUCKOO | 795.0 | 24/7 | 0.6244 | 0.7053 | 2 | 0.1820 | 0.1213 | 0.3639 | 1.092 | 748.8 | 1023 | 27,900 | 0.1134 |
| TBA | DRAKE | 795.0 | 26/7 | 0.6247 | 0.7264 | 2 | 0.1749 | 0.1360 | 0.4080 | 1.108 | 749.2 | 1094 | 31,500 | 0.1129 |
| TBA | SKIMMER | 795.0 | 30/7 | 0.6245 | 0.7702 | 2 | 0.1628 | 0.1628 | 0.4884 | 1.140 | 750.8 | 1244 | 37,700 | 0.1121 |
| TBA | MALLARD | 795.0 | 30/19 | 0.6245 | 0.7669 | 2 | 0.1628 | 0.0977 | 0.4885 | 1.140 | 750.8 | 1234 | 38,400 | 0.1122 |
| TBA | MACAW | 795.0 | 42/7 | 0.6246 | 0.6567 | 3 | 0.1376 | 0.0764 | 0.2292 | 1.055 | 749.1 | 857.8 | 20,100 | 0.1145 |
| TBA | TERN | 795.0 | 45/7 | 0.6242 | 0.6674 | 3 | 0.1329 | 0.0886 | 0.2658 | 1.063 | 748.6 | 894.9 | 22,100 | 0.1143 |
| TBA | CONDOR | 795.0 | 54/7 | 0.6240 | 0.7049 | 3 | 0.1213 | 0.1213 | 0.3639 | 1.092 | 748.3 | 1022 | 28,200 | 0.1135 |
| TBA | WILLET | 874.5 | 45/7 | 0.6868 | 0.7342 | 3 | 0.1394 | 0.0929 | 0.2787 | 1.115 | 823.6 | 984 | 24,100 | 0.1039 |
| TBA | CRANE | 874.5 | 54/7 | 0.6873 | 0.7764 | 3 | 0.1273 | 0.1273 | 0.3819 | 1.146 | 824.2 | 1126 | 31,000 | 0.1030 |
| TBA | TURNSTONE | 900.0 | 20/7 | 0.7066 | 0.7555 | 2 | 0.2121 | 0.0943 | 0.2829 | 1.131 | 847.4 | 1013 | 24,100 | 0.1010 |
| TBA | REDSTART | 900.0 | 24/7 | 0.7065 | 0.7981 | 2 | 0.1936 | 0.1291 | 0.3873 | 1.162 | 847.3 | 1157 | 31,600 | 0.1002 |
| TBA | BALDPATE | 900.0 | 30/7 | 0.7068 | 0.8717 | 2 | 0.1732 | 0.1732 | 0.5196 | 1.212 | 849.7 | 1408 | 42,700 | 0.0991 |


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# Stock # 101659 | SPEC 80100

| Stock Number | Code Word | Conductor Size | Stranding | Cross-Sectional Area | | Layers of Al | Diameter | | | | Weight | | Rated Breaking Strength | DC Resistance @ 20°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | Total | | Individual Strands | | Steel Core | Complete Conductor | Al | Total | | |
| | | AWG/kcmil | Al/St | in² | in² | | Al in | St in | in | in | lb/1000ft | lb/1000ft | lb | Ω/mile |
| TBA | RUDDY | 900.0 | 45/7 | 0.7066 | 0.7555 | 3 | 0.1414 | 0.0943 | 0.2829 | 1.131 | 847.4 | 1013 | 24,400 | 0.1010 |
| TBA | CANARY | 900.0 | 54/7 | 0.7069 | 0.7985 | 3 | 0.1291 | 0.1291 | 0.3873 | 1.162 | 847.7 | 1158 | 31,900 | 0.1002 |
| TBA | CATBIRD | 954.0 | 36/1 | 0.7494 | 0.7702 | 3 | 0.1628 | 0.1628 | 0.1628 | 1.140 | 894.3 | 964 | 19,800 | 0.0953 |
| TBA | CORNCRAKE | 954.0 | 20/7 | 0.7492 | 0.8010 | 2 | 0.2184 | 0.0971 | 0.2913 | 1.165 | 898.5 | 1074 | 25,600 | 0.0953 |
| TBA | REDBIRD | 954.0 | 24/7 | 0.7495 | 0.8466 | 2 | 0.1994 | 0.1329 | 0.3987 | 1.196 | 898.8 | 1228 | 33,500 | 0.0945 |
| TBA | MERGANSER | 954.0 | 30/7 | 0.7491 | 0.9239 | 2 | 0.1783 | 0.1783 | 0.5349 | 1.248 | 900.5 | 1492 | 45,200 | 0.0935 |
| TBA | CANVASBACK | 954.0 | 30/19 | 0.7491 | 0.9199 | 2 | 0.1783 | 0.1070 | 0.5350 | 1.248 | 900.5 | 1480 | 46,100 | 0.0935 |
| TBA | PHOENIX | 954.0 | 42/7 | 0.7491 | 0.7876 | 3 | 0.1507 | 0.0837 | 0.2511 | 1.155 | 898.4 | 1029 | 23,400 | 0.0955 |
| TBA | RAIL | 954.0 | 45/7 | 0.7492 | 0.8010 | 3 | 0.1456 | 0.0971 | 0.2913 | 1.165 | 898.5 | 1074 | 25,900 | 0.0953 |
| TBA | TOWHEE | 954.0 | 48/7 | 0.7495 | 0.8157 | 3 | 0.1410 | 0.1097 | 0.3291 | 1.175 | 898.8 | 1123 | 28,500 | 0.0950 |
| TBA | CARDINAL | 954.0 | 54/7 | 0.7491 | 0.8462 | 3 | 0.1329 | 0.1329 | 0.3987 | 1.196 | 898.4 | 1227 | 33,800 | 0.0945 |
| TBA | VIREO | 1027.4 | 48/7 | 0.8069 | 0.8781 | 3 | 0.1463 | 0.1138 | 0.3414 | 1.219 | 967.7 | 1209 | 30,600 | 0.0882 |
| TBA | TANAGER | 1033.5 | 36/1 | 0.8114 | 0.8339 | 3 | 0.1694 | 0.1694 | 0.1694 | 1.186 | 968.3 | 1044 | 21,400 | 0.0880 |
| TBA | SNOWBIRD | 1033.5 | 42/7 | 0.8121 | 0.8539 | 3 | 0.1569 | 0.0872 | 0.2616 | 1.203 | 973.9 | 1115 | 25,400 | 0.0881 |
| TBA | ORTOLAN | 1033.5 | 45/7 | 0.8112 | 0.8673 | 3 | 0.1515 | 0.1010 | 0.3030 | 1.212 | 972.8 | 1163 | 27,700 | 0.0880 |
| TBA | WHOOPER | 1033.5 | 48/7 | 0.8113 | 0.8829 | 3 | 0.1467 | 0.1141 | 0.3423 | 1.223 | 973.0 | 1215 | 30,800 | 0.0878 |
| TBA | CURLEW | 1033.5 | 54/7 | 0.8112 | 0.9164 | 3 | 0.1383 | 0.1383 | 0.4149 | 1.245 | 972.8 | 1329 | 36,600 | 0.0873 |
| TBA | AVOCET | 1113.0 | 42/7 | 0.8743 | 0.9192 | 3 | 0.1628 | 0.0904 | 0.2712 | 1.248 | 1049 | 1201 | 27,100 | 0.0818 |
| TBA | BLUEJAY | 1113.0 | 45/7 | 0.8745 | 0.9350 | 3 | 0.1573 | 0.1049 | 0.3147 | 1.259 | 1049 | 1254 | 29,800 | 0.0816 |
| TBA | BULLFINCH | 1113.0 | 48/7 | 0.8744 | 0.9516 | 3 | 0.1523 | 0.1185 | 0.3555 | 1.269 | 1049 | 1310 | 32,800 | 0.0814 |
| TBA | FINCH | 1113.0 | 54/19 | 0.8746 | 0.9855 | 3 | 0.1436 | 0.0862 | 0.4310 | 1.293 | 1054 | 1430 | 39,100 | 0.0814 |
| TBA | OXBIRD | 1192.5 | 42/7 | 0.9366 | 0.9848 | 3 | 0.1685 | 0.0936 | 0.2808 | 1.292 | 1123 | 1286 | 29,000 | 0.0764 |
| TBA | BUNTING | 1192.5 | 45/7 | 0.9367 | 1.0014 | 3 | 0.1628 | 0.1085 | 0.3255 | 1.302 | 1123 | 1342 | 32,000 | 0.0762 |
| TBA | CORMORANT | 1192.5 | 48/7 | 0.9364 | 1.0190 | 3 | 0.1576 | 0.1226 | 0.3678 | 1.313 | 1123 | 1403 | 34,700 | 0.0760 |
| TBA | GRACKLE | 1192.5 | 54/19 | 0.9365 | 1.0552 | 3 | 0.1486 | 0.0892 | 0.4460 | 1.338 | 1129 | 1532 | 41,900 | 0.0760 |
| TBA | SKYLARK | 1272.0 | 36/1 | 0.9993 | 1.0271 | 3 | 0.1880 | 0.1880 | 0.1880 | 1.316 | 1193 | 1287 | 26,400 | 0.0715 |
| TBA | SCISSORTAIL | 1272.0 | 42/7 | 0.9987 | 1.0501 | 3 | 0.1740 | 0.0967 | 0.2901 | 1.334 | 1198 | 1372 | 30,900 | 0.0716 |
| TBA | BITTERN | 1272.0 | 45/7 | 0.9987 | 1.0678 | 3 | 0.1681 | 0.1121 | 0.3363 | 1.345 | 1198 | 1432 | 34,100 | 0.0715 |
| TBA | DIVER | 1272.0 | 48/7 | 0.9992 | 1.0873 | 3 | 0.1628 | 0.1266 | 0.3798 | 1.357 | 1198 | 1496 | 37,000 | 0.0713 |
| TBA | PHEASANT | 1272.0 | 54/19 | 0.9993 | 1.1259 | 3 | 0.1535 | 0.0921 | 0.4605 | 1.382 | 1204 | 1634 | 43,600 | 0.0712 |
| TBA | FRIGATE | 1351.5 | 22/7 | 1.0619 | 1.1661 | 2 | 0.2479 | 0.1377 | 0.4131 | 1.405 | 1273 | 1626 | 41,200 | 0.0670 |
| TBA | RINGDOVE | 1351.5 | 42/7 | 1.0617 | 1.1163 | 3 | 0.1794 | 0.0997 | 0.2991 | 1.376 | 1273 | 1458 | 32,900 | 0.0674 |
| TBA | DIPPER | 1351.5 | 45/7 | 1.0614 | 1.1347 | 3 | 0.1733 | 0.1155 | 0.3465 | 1.386 | 1273 | 1521 | 36,200 | 0.0672 |
| TBA | MARTIN | 1351.5 | 54/19 | 1.0614 | 1.1958 | 3 | 0.1582 | 0.0949 | 0.4745 | 1.424 | 1279 | 1735 | 46,300 | 0.0671 |
| TBA | POPINJAY | 1431.0 | 42/7 | 1.1241 | 1.1820 | 3 | 0.1846 | 0.1026 | 0.3078 | 1.415 | 1348 | 1544 | 34,800 | 0.0636 |
| TBA | BOBOLINK | 1431.0 | 45/7 | 1.1236 | 1.2013 | 3 | 0.1783 | 0.1189 | 0.3567 | 1.427 | 1347 | 1610 | 38,300 | 0.0635 |
| TBA | WAGTAIL | 1431.0 | 48/7 | 1.1244 | 1.2236 | 3 | 0.1727 | 0.1343 | 0.4029 | 1.439 | 1348 | 1684 | 41,700 | 0.0633 |
| TBA | PLOVER | 1431.0 | 54/19 | 1.1241 | 1.2665 | 3 | 0.1628 | 0.0977 | 0.4885 | 1.465 | 1355 | 1838 | 49,100 | 0.0633 |
| TBA | NUTHATCH | 1510.5 | 45/7 | 1.1862 | 1.2682 | 3 | 0.1832 | 0.1221 | 0.3663 | 1.466 | 1423 | 1701 | 40,100 | 0.0602 |
| TBA | PARROT | 1510.5 | 54/19 | 1.1856 | 1.3357 | 3 | 0.1672 | 0.1003 | 0.5015 | 1.505 | 1429 | 1938 | 51,700 | 0.0600 |
| TBA | RATITE | 1590.0 | 42/7 | 1.2492 | 1.3134 | 3 | 0.1946 | 0.1081 | 0.3243 | 1.492 | 1498 | 1715 | 38,700 | 0.0573 |
| TBA | LAPWING | 1590.0 | 45/7 | 1.2492 | 1.3355 | 3 | 0.1880 | 0.1253 | 0.3759 | 1.504 | 1498 | 1790 | 42,200 | 0.0571 |


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# Stock # 101659 | SPEC 80100

| Stock Number | Code Word | Conductor Size | Stranding | Cross-Sectional Area | | Layers of Al | Diameter | | | | Weight | | Rated Breaking Strength | DC Resistance @ 20°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | Total | | Individual Strands | | Steel Core | Complete Conductor | Al | Total | | |
| | | AWG/kcmil | Al/St | in² | in² | | Al in | St in | in | in | lb/1000ft | lb/1000ft | lb | Ω/mile |
| TBA | HORNBILL | 1590.0 | 48/7 | 1.2487 | 1.3589 | 3 | 0.1820 | 0.1416 | 0.4248 | 1.517 | 1498 | 1871 | 45,300 | 0.0570 |
| TBA | FALCON | 1590.0 | 54/19 | 1.2489 | 1.4072 | 3 | 0.1716 | 0.1030 | 0.5150 | 1.545 | 1505 | 2042 | 54,500 | 0.0570 |
| TBA | SMEW | 1780.0 | 76/19 | 1.3973 | 1.4734 | 4 | 0.1530 | 0.0714 | 0.3570 | 1.581 | 1684 | 1942 | 43,600 | 0.0514 |
| TBA | CHUKAR | 1780.0 | 84/19 | 1.3986 | 1.5126 | 4 | 0.1456 | 0.0874 | 0.4370 | 1.602 | 1685 | 2072 | 51,000 | 0.0512 |
| TBA | WOODPECKER | 1843.0 | 72/7 | 1.4476 | 1.5102 | 4 | 0.1600 | 0.1067 | 0.3201 | 1.600 | 1745 | 1957 | 42,400 | 0.0497 |
| TBA | SEAHAWK | 1869.0 | 68/7 | 1.4681 | 1.5147 | 4 | 0.1658 | 0.0921 | 0.2763 | 1.603 | 1769 | 1927 | 40,000 | 0.0491 |
| TBA | MYNAH | 2000.0 | 84/19 | 1.5707 | 1.6987 | 4 | 0.1543 | 0.0926 | 0.4630 | 1.697 | 1893 | 2327 | 55,900 | 0.0456 |
| TBA | MOCKINGBIRD | 2034.5 | 72/7 | 1.5979 | 1.6670 | 4 | 0.1681 | 0.1121 | 0.3363 | 1.681 | 1926 | 2160 | 46,800 | 0.0450 |
| TBA | ROADRUNNER | 2057.0 | 76/19 | 1.6152 | 1.7032 | 4 | 0.1645 | 0.0768 | 0.3840 | 1.700 | 1946 | 2245 | 50,400 | 0.0445 |
| TBA | DODO | 2129.0 | 84/19 | 1.6721 | 1.8082 | 4 | 0.1592 | 0.0955 | 0.4775 | 1.751 | 2015 | 2477 | 59,500 | 0.0428 |
| TBA | COCKATOO | 2156.0 | 76/19 | 1.6927 | 1.7849 | 4 | 0.1684 | 0.0786 | 0.3930 | 1.740 | 2040 | 2353 | 52,900 | 0.0425 |
| TBA | BLUEBIRD | 2156.0 | 84/19 | 1.6931 | 1.8309 | 4 | 0.1602 | 0.0961 | 0.4805 | 1.762 | 2040 | 2507 | 60,300 | 0.0423 |
| TBA | KIWI | 2167.0 | 72/7 | 1.7022 | 1.7758 | 4 | 0.1735 | 0.1157 | 0.3471 | 1.735 | 2051 | 2300 | 49,800 | 0.0423 |
| TBA | COCKATIEL | 2300.0 | 84/19 | 1.8070 | 1.9541 | 4 | 0.1655 | 0.0993 | 0.4965 | 1.821 | 2178 | 2677 | 64,300 | 0.0396 |
| TBA | THRASHER | 2312.0 | 76/19 | 1.8155 | 1.9144 | 4 | 0.1744 | 0.0814 | 0.4070 | 1.802 | 2188 | 2524 | 56,700 | 0.0396 |
| TBA | KINGFISHER | 2385.0 | 72/7 | 1.8731 | 1.9540 | 4 | 0.1820 | 0.1213 | 0.3639 | 1.820 | 2257 | 2531 | 54,400 | 0.0384 |
| TBA | JOREE | 2515.0 | 76/19 | 1.9750 | 2.0826 | 4 | 0.1819 | 0.0849 | 0.4245 | 1.880 | 2380 | 2745 | 61,700 | 0.0364 |


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