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SLIDER TYPE RANDOM WINDING HEAD / SHUTTLE WIRE CAPACITY

| AWG. WIRE RANGE | TURNS FEET / METERS | TABLE FOR SHUTTLE WIRE CAPACITY IN SHUTTLE TURNS, FEET, AND METERS | | | | | | |
|--------------------|------------------------|--|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | #5 HEAD 6" 152.40 MM | | | | | | |
| | | .200" 5.08 | .250" 6.35 | .290" 7.36 | .320" 8.12 | .375" 9.52 | .440" 11.17 | .625" 15.87 |
| #20 0.811 mm | T F / M | | | | | | 36 54 / 10.9 | 85 135 / 41.1 |
| #21 0.722 mm | T F / M | | | | | | 45 67 / 20.4 | 106 168 / 51.2 |
| #22 0.643 mm | T F / M | | | | | | 56 84 / 25.6 | 132 210 / 64.0 |
| #23 0.573 mm | T F / M | | | | 27 40 / 12.1 | 49 75 / 22.8 | 69 104 / 31.6 | 165 262 / 79.8 |
| #24 0.510 mm | T F / M | | | | 37 57 / 17.3 | 60 92 / 28.0 | 86 129 / 39.3 | 206 327 / 99.6 |
| #25 0.454 mm | T F / M | | 26 38 / 11.5 | 36 54 / 16.4 | 55 84 / 25.6 | 75 115 / 35.0 | 107 160 / 48.7 | 256 407 / 124 |
| #26 0.404 mm | T F / M | | 32 47 / 14.3 | 45 67 / 20.4 | 68 104 / 44.5 | 95 146 / 31.6 | 132 198 / 60.3 | 320 508 / 154 |
| 27 0.370 mm | T F / M | | 40 59 / 17.9 | 56 84 / 25.6 | 85 130 / 39.6 | 117 180 / 54.8 | 165 248 / 75.5 | 397 630 / 192 |
| #28 0.321 mm | T F / M | | 50 74 / 22.5 | 69 104 / 31.6 | 105 161 / 49.0 | 147 226 / 68.8 | 205 308 / 93.8 | 497 790 / 240 |
| #29 0.285 mm | T F / M | | 62 92 / 28.0 | 86 129 / 39.3 | 130 169 / 51.5 | 167 257 / 78.3 | 255 383 / 116 | 611 971 / 296 |
| #30 0.254 mm | T F / M | 56 84 / 25.6 | 78 116 / 35.3 | 107 160 / 48.7 | 161 246 / 74.9 | 228 350 / 106 | 315 473 / 144 | 769 1222 / 372 |
| #31 0.226 mm | T F / M | 69 103 / 31.3 | 97 144 / 43.8 | 132 198 / 60.3 | 200 306 / 93.2 | 280 430 / 131 | 390 585 / 178 | 940 1494 / 455 |



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| AWG. WIRE RANGE | TURNS FEET / METERS | TABLE FOR SHUTTLE WIRE CAPACITY IN SHUTTLE TURNS, FEET, AND METERS | | | | | | |
|--------------------|------------------------|--|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
| | | #5 HEAD 6" 152.40 MM | | | | | | |
| | | .200" 5.08 | .250" 6.35 | .290" 7.36 | .320" 8.12 | .375" 9.52 | .440" 11.17 | .625" 15.87 |
| #32 0.201 mm | T F / M | 84 126 / 38.4 | 120 178 / 54.2 | 165 248 / 75.5 | 248 380 / 115 | 343 527 / 160 | 485 730 / 222 | 1151 1829 / 554 |
| #33 0.179 mm | T F / M | 106 159 / 48.4 | 149 222 / 67.6 | 205 308 / 93.8 | 308 472 / 143 | 428 658 / 200 | 600 900 / 274 | 1447 2300 / 701 |
| #34 0.160 mm | T F / M | 136 204 / 62.1 | 185 275 / 83.8 | 255 383 / 116 | 383 587 / 178 | 552 848 / 258 | 750 1120 / 341 | 1858 2952 / 899 |
| #35 0.142 mm | T F / M | 170 255 / 77.7 | 230 342 / 104 | 315 473 / 144 | 475 728 / 221 | 696 1070 / 326 | 930 1400 / 426 | 2335 3710 / 1130 |
| #36 0.127 mm | T F / M | 210 316 / 96.3 | 286 426 / 129 | 390 585 / 178 | 590 905 / 275 | 870 1338 / 407 | 1150 1720 / 524 | 2922 4643 / 1415 |
| #37 0.113 mm | T F / M | 255 383 / 116 | 355 529 / 161 | 485 730 / 222 | 730 1119 / 341 | 1040 1560 / 475 | 1430 2150 / 655 | 3488 5542 / 1689 |
| #38 0.100 mm | T F / M | 324 487 / 148 | 440 655 / 199 | 600 900 / 274 | 905 1388 / 423 | 1360 2025 / 617 | 1780 2670 / 813 | 4415 7015 / 2138 |
| #39 0.089 mm | T F / M | 400 601 / 183 | 545 812 / 247 | 750 1120 / 341 | 1120 1718 / 525 | 1718 2642 / 805 | 2200 3300 / 1005 | 5767 9164 / 2793 |
| #40 0.079 mm | T F / M | 490 736 / 224 | 676 1007 / 306 | 930 1400 / 426 | 1390 2132 / 649 | 2098 3226 / 983 | 2700 4050 / 1234 | |
| #41 0.071 mm | T F / M | 607 912 / 277 | 840 1252 / 381 | 1150 1720 / 524 | 1720 2638 / 804 | 2622 4032 / 1228 | | |
| #42 0.063 mm | T F / M | 755 1134 / 345 | 1040 1550 / 472 | 1430 2150 / 655 | 2150 3298 / 1005 | 3373 5187 / 1580 | | |



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SLIDER TYPE RANDOM WINDING HEAD / SHUTTLE WIRE CAPACITY

| COIL HEIGHT | | MAX. COIL O.D. | | MINIMUM FINISHED COIL INSIDE DIAMETER (IN INCHES USING ROLLER TABLE OR CLAMP) | | | | | | |
|-------------|-------|----------------|--------|---|---------------|---------------|---------------|---------------|----------------|----------------|
| | | | | #5 HEAD 6" 152.40 MM | | | | | | |
| INCHES | MM | INCHES | MM | .200" 5.08 | .250" 6.35 | .290" 7.36 | .320" 8.12 | .375" 9.52 | .440" 11.17 | .625" 15.87 |
| 1/4 | 6.35 | 4-7/8 | 123.62 | .210 5.33 | .260 6.60 | .300 7.62 | .330 8.38 | .385 9.77 | .450 11.43 | .700 17.78 |
| 1/2 | 12.70 | 4-7/8 | 123.62 | .220 5.58 | .265 6.73 | .310 7.87 | .340 8.63 | .410 10.41 | .460 11.68 | .710 18.03 |
| 3/4 | 19.05 | 4-7/8 | 123.62 | .230 5.84 | .280 7.11 | .320 8.12 | .350 8.89 | .435 10.04 | .480 12.19 | .720 18.28 |
| 1 | 25.40 | 4-7/8 | 123.62 | .250 6.35 | .300 7.62 | .340 8.63 | .370 9.39 | .460 11.68 | .500 12.70 | .730 18.54 |
| 1-1/4 | 31.75 | 4-7/8 | 123.62 | .280 7.11 | .325 8.25 | .370 9.39 | .400 10.16 | .485 12.31 | .530 13.46 | .750 19.05 |
| 1-1/2 | 38.10 | 4-7/8 | 123.62 | .310 7.87 | .360 9.14 | .400 10.16 | .430 10.92 | .510 12.95 | .560 12.70 | .780 19.81 |
| 1-3/4 | 44.45 | 4-7/8 | 123.62 | .350 8.89 | .400 10.16 | .440 11.17 | .470 11.93 | .550 13.97 | .600 15.24 | .820 20.82 |
| 2 | 50.80 | 4-7/8 | 123.62 | .390 9.90 | .440 11.17 | .480 12.19 | .520 14.98 | .590 14.98 | .650 15.87 | .860 20.84 |
| 2-1/4 | 57.15 | 4 | 101.60 | .440 11.17 | .500 12.70 | .530 13.46 | .570 14.47 | .650 15.87 | .700 17.78 | .910 23.11 |
| 2-1/2 | 63.50 | 3-3/8 | 85.72 | .500 12.70 | .560 12.70 | .600 15.24 | .620 15.74 | .710 18.03 | .780 19.81 | .870 22.09 |



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SLIDER CHART FOR RANDOM WINDING HEADS

| HEAD | SHUTTLE | SLIDER | AWG | MM |
|----------------|-----------------------------|--------|---------|--------------|
| #5 HEAD | .200" 5.08 | #1 | #43 | 0.063 |
| | | #2 | #41-#38 | 0.071-0.100 |
| | | #3 | #37-#34 | 0.113-0.160 |
| | | #4 | #33-#30 | 0.179-0.254 |
| | .250" 6.35 | #6 | #42-#40 | 0.063-0.079 |
| | | #7 | #39-#36 | 0.089-0.127 |
| | | #8 | #35-#32 | 0.142-0.201 |
| | | #9 | #31-#28 | 0.226-0.321 |
| | | #10 | #27-#25 | 0.360-0.454 |
| | .290" 7.36 | #32 | #42-#40 | 0.063-0.079 |
| | | #33 | #39-#36 | 0.089-0.127 |
| | | #34 | #35-#33 | 0.0142-0.179 |
| | | #35 | #32-#29 | 0.201-0.285 |
| | | #36 | #28-#25 | 0.321-0.454 |



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SLIDER CHART FOR RANDOM WINDING HEADS

| HEAD | SHUTTLE | SLIDER | AWG | MM |
|----------------|------------------------------|---------|-------------|-------------|
| #5 HEAD | .320" 8.12 | #19 | #42-#40 | 0.063-0.079 |
| | | #20 | #39-#36 | 0.089-0.127 |
| | | #21 | #35-#32 | 0.142-0.201 |
| | | #22 | #31-#28 | 0.226-0.321 |
| | | #23 | #27-#25 | 0.360-0.454 |
| | .440" 11.17 | #38 | #40-#38 | 0.079-0.100 |
| | | #39 | #37-#35 | 0.113-0.142 |
| | | #40 | #34-#31 | 0.160-0.226 |
| | | #41 | #30-#27 | 0.254-0.360 |
| | | #42 | #26-#23 | 0.404-0.357 |
| | | #43 | #22-#20 | 0.634-0.811 |
| | .625" 15.87 | #51 | #39-#37 | 0.089-0.113 |
| | | #52 | #36-#33 | 0.127-0.179 |
| | | #53 | #32-#29 | 0.201-0.285 |
| | | #54 | #28-#25 | 0.321-0.454 |
| #55 | | #24-#20 | 0.510-0.811 | |