



SPRINGS

ROUND WIRE SPRINGS (1-3/4" INSIDE DIAMETER)

| PART NUMBER | | WIRE GAUGE | LENGTH 20 COILS | WEIGHT |
|-----------------|-----------------|------------|-----------------|---------------|
| LH | RH | | | |
| 433-1300 | 433-1301 | 0.192 | 3-13/16" | 0.26 lb / in |
| 433-1302 | 433-1303 | 0.207 | 4-1/8" | 0.28 lb / in |
| 433-1304 | 433-1305 | 0.218 | 4-3/8" | 0.3 lb / in |
| 433-1306 | 433-1307 | 0.225 | 4-1/2" | 0.31 lb / in |
| 433-1308 | 433-1309 | 0.234 | 4-11/16" | 0.33 lb / in |
| 433-1310 | 433-1311 | 0.243 | 4-7/8" | 0.34 lb / in |
| 433-1312 | 433-1313 | 0.25 | 5" | 0.35 lb / in |
| 433-1314 | 433-1315 | 0.263 | 5-1/4" | 0.369 lb / in |
| 433-1316 | 433-1317 | 0.273 | 5-7/16" | 0.39 lb / in |
| 433-1318 | 433-1319 | 0.283 | 5-11/16" | 0.4 lb / in |

Other wire sizes available upon request.

ROUND WIRE SPRINGS (2" INSIDE DIAMETER)

| PART NUMBER | | WIRE GAUGE | LENGTH 20 COILS | WEIGHT |
|-----------------|-----------------|------------|-----------------|---------------|
| LH | RH | | | |
| 433-2000 | 433-2001 | 0.192 | 3-13/16" | 0.29 lb / in |
| 433-2002 | 433-2003 | 0.207 | 4-1/8" | 0.319 lb / in |
| 433-2004 | 433-2005 | 0.218 | 4-3/8" | 0.34 lb / in |
| 433-2006 | 433-2007 | 0.225 | 4-1/2" | 0.35 lb / in |
| 433-2008 | 433-2009 | 0.234 | 4-11/16" | 0.369 lb / in |
| 433-2010 | 433-2011 | 0.243 | 4-7/8" | 0.38 lb / in |
| 433-2012 | 433-2013 | 0.25 | 5" | 0.39 lb / in |
| 433-2014 | 433-2015 | 0.263 | 5-1/4" | 0.419 lb / in |
| 433-2016 | 433-2017 | 0.273 | 5-7/16" | 0.44 lb / in |
| 433-2020 | 433-2021 | 0.283 | 5-11/16" | 0.45 lb / in |

Other wire sizes available upon request.



ROUND WIRE SPRINGS (2-5/8" INSIDE DIAMETER)

| PART NUMBER | | WIRE GAUGE | LENGTH 20 COILS | WEIGHT | |
|-----------------|-----------------|------------|-----------------|--------|---------|
| LH | RH | | | | |
| 433-2500 | 433-2501 | 0.243 | 4-7/8" | 0.49 | lb / in |
| 433-2502 | 433-2503 | 0.25 | 5" | 0.5 | lb / in |
| 433-2504 | 433-2505 | 0.263 | 5-1/4" | 0.54 | lb / in |
| 433-2506 | 433-2507 | .273 | 5-7/16" | 0.560 | lb / in |
| 433-2508 | 433-2509 | .283 | 5-11/16" | 0.569 | lb / in |
| 433-2510 | 433-2511 | .295 | 5-7/8" | 0.600 | lb / in |
| 433-2512 | 433-2513 | .306 | 6-1/8" | 0.630 | lb / in |
| 433-2514 | 433-2515 | .312 | 6-1/4" | 0.640 | lb / in |
| 433-2516 | 433-2517 | .319 | 6-3/8" | 0.660 | lb / in |

Other wire sizes available upon request

ROUND WIRE SPRINGS (3-3/4" INSIDE DIAMETER)

| PART NUMBER | | WIRE GAUGE | LENGTH 20 COILS | WEIGHT | |
|-----------------|-----------------|------------|-----------------|--------|---------|
| LH | RH | | | | |
| 433-3320 | 433-3321 | 0.25 | 5" | 0.7 | lb / in |
| 433-3322 | 433-3323 | 0.263 | 5-1/4" | 0.75 | lb / in |
| 433-3300 | 433-3301 | 0.273 | 5-7/16" | 0.769 | lb / in |
| 433-3302 | 433-3303 | 0.283 | 5-11/16" | 0.8 | lb / in |
| 433-3304 | 433-3305 | 0.295 | 5-7/8" | 0.83 | lb / in |
| 433-3306 | 433-3307 | 0.306 | 6-1/8" | 0.869 | lb / in |
| 433-3308 | 433-3309 | 0.312 | 6-1/4" | 0.89 | lb / in |
| 433-3310 | 433-3311 | 0.319 | 6-3/8" | 0.919 | lb / in |
| 433-3312 | 433-3313 | 0.33 | 6-5/8" | 0.94 | lb / in |
| 433-3314 | 433-3315 | 0.343 | 6-7/8" | 0.98 | lb / in |
| 433-3316 | 433-3317 | 0.363 | 7-1/4" | 1.04 | lb / in |
| 433-3318 | 433-3319 | 0.375 | 7-1/2" | 1.08 | lb / in |

Other wire sizes available upon request.



ROUND WIRE SPRINGS (5-1/4" INSIDE DIAMETER)

| PART NUMBER | | WIRE GAUGE | LENGTH 20 COILS | WEIGHT |
|-----------------|-----------------|------------|-----------------|---------------|
| LH | RH | | | |
| 433-5100 | 433-5101 | 0.312 | 6-1/4" | 1.21 lb / in |
| 433-5102 | 433-5103 | 0.319 | 6-3/8" | 1.25 lb / in |
| 433-5104 | 433-5105 | 0.33 | 6-5/8" | 1.29 lb / in |
| 433-5106 | 433-5107 | 0.343 | 6-7/8" | 1.34 lb / in |
| 433-5108 | 433-5109 | 0.363 | 7-1/4" | 1.419 lb / in |
| 433-5110 | 433-5111 | 0.375 | 7-1/2" | 1.469 lb / in |
| 433-5112 | 433-5113 | 0.393 | 7-7/8" | 1.55 lb / in |
| 433-5114 | 433-5115 | 0.406 | 8-1/8" | 1.61 lb / in |
| 433-5116 | 433-5117 | 0.437 | 8-3/4" | 1.74 lb / in |

Other wire sizes available upon request.

ROUND WIRE SPRINGS (6" INSIDE DIAMETER)

| PART NUMBER | | WIRE GAUGE | LENGTH 20 COILS | WEIGHT |
|-----------------|-----------------|------------|-----------------|---------------|
| LH | RH | | | |
| 433-6100 | 433-6101 | 0.312 | 6 1/4 | 1.38 lb / in |
| 433-6102 | 433-6103 | 0.319 | 6 3/8 | 1.413 lb / in |
| 433-6104 | 433-6105 | 0.331 | 6 5/8 | 1.466 lb / in |
| 433-6106 | 433-6107 | 0.343 | 6 7/8 | 1.526 lb / in |
| 433-6108 | 433-6109 | 0.363 | 7 1/4 | 1.614 lb / in |
| 433-6110 | 433-6111 | 0.375 | 7 1/2 | 1.673 lb / in |
| 433-6112 | 433-6113 | 0.393 | 7 7/8 | 1.762 lb / in |
| 433-6114 | 433-6115 | 0.406 | 8 1/8 | 1.821 lb / in |
| 433-6116 | 433-6117 | 0.437 | 8 3/4 | 1.971 lb / in |

Other wire sizes available upon request.



SQUARE WIRE SPRINGS (3-5/8" INSIDE DIAMETER)

| PART NUMBER | | WIRE GAUGE | LENGTH 16 COILS | WEIGHT |
|-----------------|-----------------|------------|-----------------|-----------------|
| LH | RH | | | |
| 433-3590 | 433-3591 | 0.312 | 5-3/16" | 0.342 lb / coil |
| 433-3592 | 433-3593 | 0.343 | 5-11/16" | 0.415 lb / coil |
| 433-3594 | 433-3595 | 0.375 | 6-3/16" | 0.5 lb / coil |
| 433-3596 | 433-3597 | 0.406 | 6-3/4" | 0.59 lb / coil |
| 433-3598 | 433-3599 | 0.437 | 7-1/4" | 0.689 lb / coil |

When you are working with square wire, always count the number of coils rather than measuring the length.

SQUARE WIRE SPRINGS (5-1/4" INSIDE DIAMETER)

| PART NUMBER | | WIRE GAUGE | LENGTH 16 COILS | WEIGHT |
|-----------------|-----------------|------------|-----------------|-----------------|
| LH | RH | | | |
| 433-5190 | 433-5191 | 0.312 | 5-1/8" | 0.483 lb / coil |
| 433-5192 | 433-5193 | 0.343 | 5-5/8" | 0.585 lb / coil |
| 433-5194 | 433-5195 | 0.375 | 6-1/8" | 0.703 lb / coil |
| 433-5198 | 433-5199 | 0.437 | 7-1/8" | 0.966 lb / coil |

When you are working with square wire, always count the number of coils rather than measuring the length.

SQUARE WIRE SPRINGS (6" INSIDE DIAMETER)

| PART NUMBER | | WIRE GAUGE | LENGTH 16 COILS | WEIGHT |
|-----------------|-----------------|------------|-----------------|-----------------|
| LH | RH | | | |
| 433-6190 | 433-6191 | 0.312 | 5 1/8 | 0.549 lb / coil |
| 433-6192 | 433-6193 | 0.343 | 5 5/8 | 0.668 lb / coil |
| 433-6194 | 433-6195 | 0.375 | 6 1/8 | 0.799 lb / coil |
| 433-6196 | 433-6197 | 0.406 | 6 5/8 | 0.942 lb / coil |

When you are working with square wire, always count the number of coils rather than measuring the length.

HOW TO MEASURE SQUARE WIRE SPRINGS:

When square wire springs are made, the inner surface of the wires has to go around a tighter radius than the outer surface - for a .375 square x 5-1/4" ID spring, the inside diameter is 5-1/4", but the outside diameter is approximately 6". This causes the wire to spread out laterally along its inside diameter as it is coiled making the spring longer than the product of its gauge times the number of coils, usually by 2 to 4%. If you take .375 round wire and cut a spring at 120 coils, your length will be .375 x 120 coils, or 45". Using the same gauge in square wire, however, the total length for the same 120 coils will be 46-5/8" (3-5/8" ID) or 46-1/8" (5-1/4" ID).

To properly measure square wire springs, measure 16 coils and **go back** to the nearest inch or half inch and divide by 16. For .375 wire, measure 16 coils (which will equal approximately 6-1/8" to 6-3/16") and **go back** to 6", divide 6 by 16 to get .375 square wire.



SPRING WEIGHT CHART

| ROUND WIRE SPRING INSIDE DIAMETER (LBS PER INCH OF SPRING) | | | | | | | |
|--|---------|--------|--------|--------|--------|--------|--------|
| GA | COLOUR | 1.75 | 2 | 2.625 | 3.75 | 5.25 | 6 |
| 0.192 | orange | 0.2620 | 0.2958 | | | | |
| 0.207 | yellow | 0.2847 | 0.3211 | 0.4120 | | | |
| 0.2187 | white | 0.3015 | 0.3398 | 0.4355 | | | |
| 0.2253 | red | 0.3123 | 0.3518 | 0.4506 | | | |
| 0.234 | brown | 0.3263 | 0.3674 | 0.4701 | 0.6551 | | |
| 0.2437 | green | 0.3403 | 0.3830 | 0.4898 | 0.6819 | | |
| 0.250 | gold | 0.3514 | 0.3953 | 0.5051 | 0.7028 | | |
| 0.2625 | blue | 0.3705 | 0.4165 | 0.5316 | 0.7387 | | |
| 0.273 | orange | 0.3881 | 0.4361 | 0.5560 | 0.7718 | | |
| 0.283 | lt blue | 0.4043 | 0.4540 | 0.5783 | 0.8021 | | |
| 0.295 | white | 0.4240 | 0.4758 | 0.6054 | 0.8386 | 1.1495 | 1.3050 |
| 0.3065 | brown | | 0.4959 | 0.6303 | 0.8722 | 1.1948 | 1.3561 |
| 0.3125 | tan | | | 0.6440 | 0.8906 | 1.2195 | 1.3840 |
| 0.3195 | green | | | 0.6600 | 0.9122 | 1.2485 | 1.4166 |
| 0.331 | gold | | | 0.6876 | 0.9493 | 1.2982 | 1.4727 |
| 0.3437 | blue | | | | 0.9866 | 1.3482 | 1.5289 |
| 0.3625 | orange | | | | 1.0461 | 1.4277 | 1.6185 |
| 0.375 | lt blue | | | | 1.0871 | 1.4824 | 1.6800 |
| 0.3938 | yellow | | | | 1.1442 | 1.5585 | 1.7656 |
| 0.4062 | white | | | | | 1.6138 | 1.8277 |
| 0.4218 | red | | | | | 1.6778 | 1.8997 |
| 0.4375 | tan | | | | | 1.7465 | 1.9768 |

| SQUARE WIRE SPRING INSIDE DIAMETER (LBS PER INCH OF SPRING) APROX LENGTH OF 16 COILS | | | | | | | |
|--|--------|--------|----------|--------|--------|--------|--------|
| WIRE GA | | 3.625 | | 5.250 | | 6.000 | |
| 0.3125 | 5/16" | 0.3313 | 5-3/16" | 0.4683 | 5-1/8" | 0.5315 | 5-1/8" |
| 0.34375 | 11/32" | 0.4023 | 5-11/16" | 0.5673 | 5-5/8" | 0.6435 | 5-5/8" |
| 0.375 | 3/8" | 0.4753 | 6-3/16" | 0.6688 | 6-1/8" | 0.7581 | 6-1/8" |
| 0.40625 | 13/32" | 0.5721 | 6-3/4" | 0.8031 | 6-5/8" | 0.9097 | 6-5/8" |
| 0.4375 | 7/16" | 0.6663 | 7-1/4" | 0.9334 | 7-1/8" | 1.0567 | 7-1/8" |