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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			
		#2 SUBMINIATURE HEAD 3 1/2" DIA. 88.90 MM			
		.050" 1.27	.060" 1.52	0.90" 2.28	.120" 3.05
#30 0.254 mm	T F / M				14 13 / 3.9
#31 0.226 mm	T F / M				16 15 / 4.5
#32 0.201 mm	T F / M				20 18 / 5.4
#33 0.179 mm	T F / M				25 23 / 7.0
#34 0.160 mm	T F / M			13 12 / 3.6	32 30 / 9.1
#35 0.142 mm	T F / M			20 18 / 5.4	48 44 / 13.4
#36 0.127 mm	T F / M			27 25 / 7.6	65 60 / 18.2
#37 0.113 mm	T F / M			35 32 / 9.7	85 78 / 23.7
#38 0.100 mm	T F / M	13 12 / 3.6	19 17 / 5.1	63 58 / 17.6	107 98 / 29.8
#39 0.089 mm	T F / M	17 15 / 4.5	24 22 / 6.7	78 71 / 21.6	133 122 / 37.1
#40 0.079 mm	T F / M	21 19 / 5.7	30 27 / 8.2	98 89 / 27.1	167 153 / 46.6



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		#2 SUBMINIATURE HEAD 3 1/2" DIA. 88.90 MM			
		.050" 1.27	.060" 1.52	.090" 2.28	.120" 3.05
#41 0.071 mm	T F / M	26 24 / 7.3	37 34 / 10.3	122 111 / 33.8	208 111 / 33.8
#42 0.063 mm	T F / M	32 29 / 8.8	46 42 / 12.8	58 144 / 43.8	271 249 / 75.8
#43 0.056 mm	T F / M	41 37 / 11.2	58 53 / 16.1	192 175 / 53.3	236 299 / 91.1
#44 0.050 mm	T F / M	52 48 / 14.6	72 66 / 20.1	239 218 / 66.4	407 373 / 113
#45 0.044 mm	T F / M	64 59 / 18.0	90 82 / 25.0	300 274 / 183.5	510 467 / 142
#46 0.039 mm	T F / M	80 73 / 22.2	112 102 / 31.0	378 346 / 105	645 519 / 180
#47 0.035 mm	T F / M	101 93 / 28.3	140 128 / 39.0		
#48 0.031 mm	T F / M	126 116 / 35.3	176 161 / 49.0		
#49 0.028 mm	T F / M	159 146 / 44.5	220 201 / 61.2		
#50 0.025 mm	T F / M	199 183 / 55.7	276 252 / 76.8		



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AWG. WIRE RANGE	TURNS FEET / METERS	TABLE FOR SHUTTLE WIRE CAPACITY IN SHUTTLE TURNS, FEET, AND METERS			
		#3 HEAD 3 3/4" DIA 95.25 MM			
		.160" 4.06	.200" 5.08	.250" 6.35	.320" 8.12
#23 0.573 mm	T F / M				27 27 / 8.2
#24 0.510 mm	T F / M				37 37 / 11.2
#25 0.454 mm	T F / M			26 26 / 7.9	55 55 / 16.7
#26 0.404 mm	T F / M			32 32 / 9.7	68 68 / 20.7
27 0.370 mm	T F / M			40 40 / 12.1	85 85 / 26.0
#28 0.321 mm	T F / M			50 50 / 15.2	105 105 / 32.0
#29 0.285 mm	T F / M			62 62 / 18.8	130 130 / 39.6
#30 0.254 mm	T F / M	33 33 / 10.0	56 56 / 10.0	78 78 / 23.7	161 161 / 49.0
#31 0.226 mm	T F / M	41 41 / 12.4	69 69 / 21.0	97 97 / 29.5	200 200 / 61.0
#32 0.201 mm	T F / M	51 51 / 15.5	84 84 / 25.6	120 120 / 36.5	248 248 / 75.5
#33 0.179 mm	T F / M	64 64 / 19.5	106 106 / 32.3	149 149 / 45.4	308 308 / 93.8



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AWG. WIRE RANGE	TURNS FEET / METERS	TABLE FOR SHUTTLE WIRE CAPACITY IN SHUTTLE TURNS, FEET, AND METERS			
		#3 HEAD 3 3/4" DIA 95.25 MM			
		.160" 4.06	.200" 5.08	.250" 6.35	.320" 8.12
#34 0.160 mm	T F / M	80 80 / 24.3	136 136 / 41.4	185 185 / 56.3	383 383 / 116
#35 0.142 mm	T F / M	100 100 / 30.4	170 170 / 51.8	230 230 / 70.1	475 475 / 144
#36 0.127 mm	T F / M	125 125 / 38.1	210 210 / 64.0	286 286 / 87.1	590 590 / 179
#37 0.113 mm	T F / M	156 156 / 47.5	255 255 / 77.7	355 355 / 108	730 730 / 222
#38 0.100 mm	T F / M	194 194 / 59.1	324 324 / 98.7	440 440 / 134	950 905 / 275
#39 0.089 mm	T F / M	240 240 / 73.1	400 400 / 122	545 545 / 166	1120 1120 / 341
#40 0.079 mm	T F / M	300 300 / 91.4	490 490 / 149	676 676 / 206	1390 1390 / 423
#41 0.071 mm	T F / M	375 375 / 114	607 607 / 185	840 840 / 256	1720 1720 / 524
#42 0.063 mm	T F / M	470 470 / 143	755 755 / 230	1040 1040 / 143	2150 2150 / 381
#43 0.056 mm	T F / M	580 580 / 176	938 938 / 286		
#44 0.050 mm	T F / M	720 720 / 219	1160 1160 / 353		



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AWG. WIRE RANGE	TURNS FEET / METERS	TABLE FOR SHUTTLE WIRE CAPACITY IN SHUTTLE TURNS, FEET, AND METERS				
		#4 HEAD				
		5" DIA		95.25 MM		
		.160" 4.06	.200" 5.08	.250" 6.35	.320" 8.12	.440" 11.17
#20 0.811 mm	T F/M					36 45 / 13.7
#21 0.722 mm	T F/M					45 57 / 17.3
#22 0.643 mm	T F/M					56 71 / 21.6
#23 0.573 mm	T F/M					69 87 / 26.5
#24 0.510 mm	T F/M					86 109 / 33.2
#25 0.454 mm	T F/M			26 32 / 9.7	55 69 / 21.0	107 135 / 41.1
#26 0.404 mm	T F/M			32 40 / 12.1	68 85 / 26.0	132 167 / 51.0
27 0.370 mm	T F/M			40 50 / 15.2	85 105 / 32.0	165 209 / 63.7
#28 0.321 mm	T F/M			50 62 / 18.8	105 130 / 39.6	205 260 / 79.2
#29 0.285 mm	T F/M			62 77 / 23.4	130 161 / 49.0	255 323 / 98.4
#30 0.254 mm	T F/M	33 40 / 12.1	56 70 / 21.3	78 97 / 29.5	161 200 / 61.0	315 399 / 121
#31 0.226 mm	T F/M	41 50 / 15.2	69 86 / 26.2	97 121 / 36.8	200 248 / 75.5	390 495 / 150



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AWG. WIRE RANGE	TURNS FEET / METERS	TABLE FOR SHUTTLE WIRE CAPACITY IN SHUTTLE TURNS, FEET, AND METERS				
		#4 HEAD				
		5" DIA		95.25 MM		
		.160" 4.06	.200" 5.08	.250" 6.35	.320" 8.12	.440" 11.17
#32 0.201 mm	T F/M	51 63 / 19.2	84 105 / 320	120 149 / 45.4	248 308 / 93.8	485 615 / 187
#33 0.179 mm	T F/M	64 79 / 24.0	106 132 / 40.2	149 185 / 56.3	308 383 / 116	600 761 / 231
#34 0.160 mm	T F/M	80 99 / 30.1	136 170 / 51.8	185 230 / 70.1	383 475 / 144	750 952 / 290
#35 0.142 mm	T F/M	100 123 / 37.4	170 212 / 64.6	230 287 / 87.4	475 590 / 179	930 1180 / 359
#36 0.127 mm	T F/M	125 155 / 47.2	210 262 / 79.8	286 356 / 108	590 730 / 222	1150 1460 / 445
#37 0.113 mm	T F/M	156 193 / 58.8	255 318 / 97.0	355 443 / 135	730 905 / 275	1430 1815 / 553
#38 0.100 mm	T F/M	194 240 / 73.1	324 405 / 123	440 548 / 167	905 1120 / 341	1780 2259 / 688
#39 0.089 mm	T F/M	240 297 / 90.7	400 500 / 152	545 680 / 207	1120 1390 / 423	2200 2793 / 851
#40 0.079 mm	T F/M	300 371 / 113	490 612 / 186	676 843 / 257	1390 1720 / 524	2700 3427 / 1044
#41 0.071 mm	T F/M	375 464 / 141	607 758 / 231	840 1048 / 319	1720 2150 / 655	
#42 0.063 mm	T F/M	470 582 / 177	755 943 / 287	1040 1307 / 398	2150 2650 / 807	



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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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		#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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AWG. WIRE RANGE	TURNS FEET / METERS	TABLE FOR SHUTTLE WIRE CAPACITY IN SHUTTLE TURNS, FEET, AND METERS				
		#7 HEAD 71/2 DIA. 190.50 MM				
		.320" 8.12	.440" 11.17	.530" 13.46	.560" 14.22	.625" 15.87
#20 0.811 mm	T F/M		36 70 / 21.3	50 99 / 30.1	60 119 / 36.2	85 170 / 51.8
#21 0.722 mm	T F/M		47 87 / 26.5	62 122 / 37.1	76 151 / 46.0	106 212 / 64.6
#22 0.643 mm	T F/M		56 108 / 32.9	77 152 / 46.3	95 189 / 57.6	132 264 / 80.4
#23 0.573 mm	T F/M		69 133 / 40.5	95 188 / 57.3	118 235 / 71.6	165 330 / 100
#24 0.510 mm	T F/M		86 166 / 50.5	120 237 / 72.2	148 295 / 89.9	206 412 / 125
#25 0.454 mm	T F/M	55 105 / 32.0	107 207 / 63.0	150 296 / 90.3	163 324 / 98.7	256 513 / 156
#26 0.404 mm	T F/M	68 129 / 39.3	132 255 / 77.7	187 370 / 112	229 456 / 138	320 641 / 195
27 0.370 mm	T F/M	85 162 / 49.3	165 319 / 97.2	232 459 / 139	285 568 / 173	397 795 / 242
#28 0.321 mm	T F/M	105 200 / 60.9	205 396 / 120	289 572 / 174	356 709 / 216	457 996 / 303
#29 0.285 mm	T F/M	130 248 / 75.5	255 493 / 150	355 702 / 213	439 875 / 266	611 1225 / 373
#30 0.254 mm	T F/M	161 307 / 93.5	315 609 / 185	450 890 / 271	553 1102 / 335	769 1541 / 469
#31 0.226 mm	T F/M	200 382 / 116	390 754 / 229	550 1088 / 331	675 1345 / 409	940 1884 / 574



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AWG. WIRE RANGE	TURNS FEET / METERS	TABLE FOR SHUTTLE WIRE CAPACITY IN SHUTTLE TURNS, FEET, AND METERS				
		#7 HEAD 71/2 DIA. 190.50 MM				
		.320" 8.12	.440" 11.17	.530" 13.46	.560" 14.22	.625" 15.87
#32 0.201 mm	T F/M	248 473 / 144	485 938 / 285	673 1331 / 405	829 1654 / 503	1151 2307 / 703
#33 0.179 mm	T F/M	308 588 / 179	600 1160 / 353	844 1669 / 508	1040 2072 / 631	1447 2900 / 883
#34 0.160 mm	T F/M	383 732 / 223	750 1450 / 441	1081 2150/655	1335 2660 / 810	1858 3724 / 1135
#35 0.142 mm	T F/M	475 907 / 276	930 1799 / 548	1363 2696 / 821	1685 3358 / 1023	2335 4680 / 1426
#36 0.127 mm	T F/M	590 1127 / 343	1150 2224 / 677	1707 3376 / 1029	2105 4195 / 1278	2922 5857 / 1785
#37 0.113 mm	T F/M	730 1395 / 425	1430 2766 / 843	2038 4031 / 1228	2514 5010 / 1527	3488 6991 / 2130
#38 0.100 mm	T F/M	905 1729 / 526	1780 3443 / 1049	2583 5109 / 1557	3185 6347 / 1934	4415 8850 / 2697
#39 0.089 mm	T F/M	1120 2140 / 652	2200 4256 / 1297	3376 6677 / 2035	4165 8300 / 2529	5767 11560 / 3523
#40 0.079 mm	T F/M	1390 2656 / 809	2700 5223 / 1591	4120 8149 / 2483	5083 10130 / 3087	
#41 0.071 mm	T F/M	1724 3293 / 1003				
#42 0.063 mm	T F/M	2137 4083 / 1244				



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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)			
				#2 SUBMINIATURE HEAD 3 1/2" DIA. 88.90 MM			
INCHES	MM	INCHES	MM	.050" 1.27	.060" 1.52	0.90" 2.28	.120" 3.05
1/8	3.17	1-1/8	28.57	.055 1.39	.065 1.65	.090 2.28	.130 3.30
1/4	6.35	1-1/8	28.57	.060 1.52	.070 1.77	.100 2.54	.035 3.42
3/8	9.52	1-1/8	28.57	.070 1.77	.080 2.03	.105 2.66	.140 3.55
1/2	12.70	1-1/8	28.57	.080 2.03	.090 2.28	.115 2.92	.145 3.68
5/8	15.87	1	25.40	.090 2.28	.100 2.54	.125 3.17	.155 3.95
3/4	19.05	7/8	22.22	.100 2.54	.105 2.66	.135 3.42	.170 4.31



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COIL HEIGHT		MAX. COIL O.D.		MINIMUM FINISHED COIL INSIDE DIAMETER (IN INCHES USING ROLLER TABLE OR CLAMP)			
				#3 HEAD 3 3/4" DIA 95.25 MM			
INCHES	MM	INCHES	MM	.160" 4.06	.200" 5.08	.250" 6.35	.320" 8.12
1/4	6.35	2-1/8	53.97	.200 5.08	.210 5.33	.260 6.60	.330 8.38
1/2	12.70	2-1/8	53.97	.220 5.58	.230 5.84	.280 7.11	.340 8.63
3/4	19.05	2-1/8	53.97	.240 6.09	.250 6.35	.300 7.62	.365 9.27
1	25.40	1-3/4	44.45	.270 6.85	.280 7.11	.330 8.38	.400 10.16
1-1/4	31.75	1-1/2	38.10	.305 7.74	.330 8.38	.375 9.52	.440 11.17
1-1/2	38.10	1-3/8	34.92	.350 8.89	.380 9.65	.420 10.66	.500 12.70



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COIL HEIGHT		MAX. COIL O.D.		MINIMUM FINISHED COIL INSIDE DIAMETER (IN INCHES USING ROLLER TABLE OR CLAMP)				
				#4 HEAD 5" DIA 95.25 MM				
INCHES	MM	INCHES	MM	.160" 4.06	.200" 5.08	.250" 6.35	.320" 8.12	.440" 11.17
1/4	6.35	3-1/2	88.90	.200 5.08	.210 5.53	.260 6.60	.330 8.38	.450 11.43
1/2	12.70	3-1/2	88.90	.210 5.33	.225 5.71	.270 6.85	.340 8.63	.465 11.81
3/4	19.05	3-1/2	88.90	.230 5.84	.240 6.09	.290 7.36	.360 9.14	.490 12.44
1	25.40	3-1/2	88.90	.250 6.35	.260 6.60	.310 7.87	.380 9.65	.520 13.20
1-1/4	31.75	3-1/2	88.90	.275 6.89	.300 7.62	.340 8.63	.420 10.66	.550 13.97
1-1/2	38.10	3-1/4	82.55	.310 7.87	.340 8.63	.380 9.65	.460 11.68	.600 15.24
1-3/4	44.45	2-1/2	63.50	.350 8.89	.380 9.65	.430 10.92	.510 12.95	.650 15.87
2	50.80	2-1/4	57.15	.400 10.16	.430 10.92	.490 12.44	.570 14.47	.710 18.03



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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 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)					
				#7 HEAD 71/2 DIA. 190.50 MM					
INCHES	MM	INCHES	MM	.200" 5.08	.320" 8.12	.440" 11.17	.530" 13.46	.560" 14.22	.625" 15.87
1/4	6.35	5-1/4	133.35	.210 5.33	.330 8.38	.450 11.43	.540 13.71	.590 14.98	.700 17.78
1/2	12.70	5-1/4	133.35	.220 5.58	.335 8.50	.460 11.68	.570 14.47	.600 15.24	.710 18.03
3/4	19.05	5-1/4	133.35	.230 5.84	.340 8.63	.475 12.06	.600 15.24	.630 16.00	.720 18.28
1	25.40	5-1/4	133.35	.250 6.35	.360 9.14	.490 12.44	.630 16.00	.660 16.76	.730 18.54
1-1/4	31.75	5-1/4	133.35	.280 7.11	.380 9.65	.510 12.65	.660 16.76	.690 17.52	.740 18.79
1-1/2	38.10	5-1/4	133.35	.310 7.87	.410 10.41	.540 13.71	.690 17.52	.720 18.28	.760 19.30
1-3/4	44.45	5-1/4	133.35	.340 8.63	.440 11.17	.570 14.47	.720 18.28	.750 19.05	.790 20.06
2	50.80	5-1/4	133.35	.380 9.65	.480 12.19	.600 15.24	.750 19.05	.780 19.81	.820 20.82
2-1/4	57.15	5-1/4	133.35	.420 10.66	.520 13.20	.630 16.00	.780 19.81	.810 20.57	.860 21.84
2-1/2	63.50	5-1/4	133.35	.475 10.79	.560 12.70	.680 17.27	.820 20.82	.860 21.84	.900 22.86
3	76.20	5-1/4	133.35	.590 14.98	.670 17.01	.810 20.57	.940 23.87	.960 24.38	1.020 25.90
3-1/2	88.90	5-1/4	133.35	.725 18.41	.790 20.06	.930 23.62	1.080 27.43	1.100 27.94	1.140 28.95
4	101.60	4-3/4	120.65	.910 23.11	1.000 25.40	1.100 27.94	1.220 30.98	1.250 30.98	1.290 32.76



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## SLIDER CHART FOR RANDOM WINDING HEADS

HEAD	SHUTTLE	SLIDER	AWG	MM
<b>#2 SUBMINIATURE HEAD</b>	<i>.050" (#01-#03) 1.27</i> <i>.060" (#01-#04) 1.52</i> <i>.090" (#02-#07) 2.28</i> <i>.120" (#02-#085) 3.04</i>	#01	#50-#48	0.025-0.031
		#02	#47-#44	0.035-0.050
		#03	#43-#42	0.056-0.063
		#04	#41-#40	0.071-0.079
		#05	#39-#38	0.089-0.100
		#055	#38 TRI-FIL. 090 ONLY	#38 TRI-FIL. 0.100
		#06	#37-#36	0.113-0.127
		#07	#35-#34	0.142-0.160
		#08	#33-#30	0.179-0.254
		#085	#29	0.285





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## SLIDER CHART FOR RANDOM WINDING HEADS

HEAD	SHUTTLE	SLIDER	AWG	MM
<b>#3 HEAD</b>	.160" 1.51	#1	#44-#42	0.050-0.063
		#2	#41-#38	0.071-0.100
		#3	#37-#34	0.113-0.160
		#4	#33-#30	0.179-0.254
		#5	#26-#29	0.404-0.285
	.200" 5.08	#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
	.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	0.36-0.454



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## SLIDER CHART FOR RANDOM WINDING HEADS

HEAD	SHUTTLE	SLIDER	AWG	MM
<b>#4 HEAD</b>	.160" 1.52	#1	#42	0.063
		#2	#41-#38	0.071-0.100
		#3	#37-#34	0.113-0.160
		#4	#33-#30	0.179-0.100
	.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



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## SLIDER CHART FOR RANDOM WINDING HEADS

HEAD	SHUTTLE	SLIDER	AWG	MM
<b>#4 HEAD</b>	<b>.320"</b> <b>8.12</b>	#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
	<b>.440"</b> <b>11.17</b>	#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	0.404-0.573
		#43	#22-#20	0.643-0.811



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## SLIDER CHART FOR RANDOM WINDING HEADS

HEAD	SHUTTLE	SLIDER	AWG	MM
<b>#5 HEAD</b>	<b>.200"</b> <b>5.08</b>	#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
	<b>.250"</b> <b>6.35</b>	#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
	<b>.290"</b> <b>7.36</b>	#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
<b>#5 HEAD</b>	<b>.320"</b> <b>8.12</b>	#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
	<b>.440"</b> <b>11.17</b>	#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
	<b>.625"</b> <b>15.87</b>	#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	



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## SLIDER CHART FOR RANDOM WINDING HEADS

HEAD	SHUTTLE	SLIDER	AWG	MM
<b>#7 HEAD</b>	<b>.320"</b> <b>8.25</b>	#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
	<b>.440"</b> <b>11.17</b>	#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	0.404-0.573
		#43	#22-#20	0.643-0.811



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## SLIDER CHART FOR RANDOM WINDING HEADS

HEAD	SHUTTLE	SLIDER	AWG	MM
<b>#7 HEAD</b>	<b>.530"</b> <b>13.46</b>	#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	0.404-0.573
		#43	#22-#20	0.643-0.811
	<b>.560"</b> <b>14.22</b>	#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	0.404-0.573
		#43	#22-#20	0.643-0.811



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## SLIDER CHART FOR RANDOM WINDING HEADS

HEAD	SHUTTLE	SLIDER	AWG	MM
#7 HEAD	.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-#22	0.321-0.643
		#55	#24-#20	0.510-0.811