



10 Precision Road
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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				
		#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)					
				#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
#7 HEAD	.320" 8.25	#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	0.404-0.573
		#43	#22-#20	0.643-0.811



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SLIDER CHART FOR RANDOM WINDING HEADS

HEAD	SHUTTLE	SLIDER	AWG	MM
#7 HEAD	.530" 13.46	#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
	.560" 14.22	#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