

# FERRITE TOROIDAL CORES

A <sub>L</sub> VALUE CHART for FERRITE TOROIDAL CORES								
core size	material number							
	68 u=20	63 u=40	67 u=40	61 u=125	43 u=850	77 u=2000	72 u=2000	75 u=5000
FT - 23 --	4.0	7.9	7.9	24.8	188	396	396	995
FT - 37 --	8.8	19.7	19.7	55.3	420	884	884	2220
FT - 50 --	11.0	22.0	22.0	68.8	523	1100	1100	2740
FT - 50 - A --	12.0	24.0	24.0	75.0	570	1200	1200	2990
FT - 50 - B --	- -	48.0	48.0	150.0	1140	2400	2400	- -
FT - 82 - -	11.7	22.4	22.4	73.0	557	1172	1172	2940
FT - 114 --	12.7	25.4	25.4	79.3	603	1270	1270	3170
FT - 114-A --	- -	- -	- -	146.0	- -	2340	- -	- -
FT - 140 --	- -	- -	45.0	140.0	952	2240	2240	- -
FT - 240 --	- -	- -	53.0	171.0	1239	- -	3133	- -

  

number of turns = 1000	$\sqrt{\frac{\text{desired } L \text{ (mh)}}{A_L \text{ value above (mh/1000 t)}}$
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WIRE TURNS CHART for FERRITE TOROIDAL CORES																
core size vs. wire size: single layer wound																
core size	wire size															
	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
FT-23 --	0	0	0	0	2	4	7	11	15	21	28	37	48	62	79	101
FT-37 --	0	0	2	4	7	11	15	21	28	36	48	61	79	100	127	161
FT-50 --	2	4	7	10	14	19	26	34	45	58	75	95	121	154	194	245
FT-82 --	3	5	8	12	16	22	29	39	51	65	84	106	135	171	216	273
FT-87 --	10	14	19	25	34	43	56	72	92	118	150	188	239	302	374	478
FT-114 --	16	22	29	38	49	63	80	100	131	166	211	263	334	420	527	665
FT-150 --	16	22	29	38	49	63	80	103	131	166	211	264	335	422	529	667
FT-193 --	31	41	53	68	86	109	139	176	223	282	357	445	562	707	886	1115
FT-240 --	36	46	60	77	98	123	156	198	250	317	400	499	631	793	993	1250

Note: Allowance has been made for winding error. A few more turns may be possible with very careful winding and close positioning of each turn.