MWS Wire Industries

For superior performance and tighter control over twisted wire construction.

For those who use twisted magnet wire in the production of custom toroid, ferrite and recording head coils, specialty audio and R.F. transformers, Twistite magnet wire offers several advantages over other twisted magnet wire constructions.

Because Twistite is custom produced by MWS, a wider range of twisting constructions is possible.

Manufacturing capabilities include:

- Up to 50 twists per inch on fine wire
- Twisting tolerance as tight as ±1%
- Tightly controlled capacitance, inductance and impedance characteristics
- Up to 10 colors in some sizes for conductor identification
- Huge selection of insulations 105 - 240°C (single through quadruple film builds - See page 5)
- Wide range of sizes: 16 through 52 AWG
- Wide variety of conductor materials: copper, silver, plated conductors, and specialty alloys

Part Number Ordering System — Make your own part number by following the guidelines outlined below

T - 3 38 1 2 2 3 - 10 (155)

Product Letter	Number of Conductors	AWG Size	Conductor Material	Insulation Build	Insulation Type*	Color Code	Twisting Tightness	Thermal Class
For all Twistite magnet wire	Use ( ) for more than 9 conductors	Use 88 for special size	1 = Copper 2 = Silver 3 = Aluminum 4 = Silver Plated Copper 5 = Gold Plated Copper 9 = special	1 = single 2 = heavy 3 = triple 4 = quadruple 9 = special	1 = Polyurethane - 155 / 180 2 = Poly-Nylon - 155 / 180 3 = Polyester - 180 4 = Polyester - 200 5 = Polyurethane bondable 6 = Solderable Polyester - 180 7 = Formvar 8 = ML 9 = special	0 = none required 1 = red/green 2 = green/natural 3 = red/green/natural 4 = red/green/natural/blue 9 = special	Number of twists per inch	For Poly and Poly-Nylon insulations specify 155 or 180 thermal class

EXAMPLE = 3/38 Copper - Heavy Poly Nylon 155°C - Red/Green/Natural - 10 Twists Per Inch

*See pages 2 and 3 for a complete listing of insulations. Twistite™ is a trademark of MWS Wire Industries

NUMBER OF STRANDS	SIZE (AWG)	CIRCULAR MILS	NEAREST AWG EQUIV. (CIR. MILS)	RESISTANCE (OHMS PER 1000 FT. AT 20°C)	SINGLE BUILD			HEAVY BUILD		
					MEAN O.D. (INCHES)	FEET PER POUND	POUNDS PER 1000 FT.	MEAN O.D. (INCHES)	FEET PER POUND	POUNDS PER 1000 FT.
		NOMINAL		NOMINAL	NOMINAL			NOMINAL		
2	24	808.00	21	12.83	.043	402	2.49	.045	395	2.53
3	24	1212.00	19½	8.56	.043	268	3.73	.045	263	3.79
6	24	2424.00	16½	4.28	.060	134	7.46	.063	132	7.59
2	25	641.00	22	16.18	.038	505	1.98	.040	496	2.02
3	25	961.00	20½	10.79	.038	337	2.97	.040	331	3.03
6	25	1922.00	17½	5.39	.054	168	5.94	.057	165	6.05
2	26	506.00	23	20.51	.034	639	1.56	.036	627	1.60
3	26	758.00	21½	13.67	.034	426	2.35	.036	418	2.39
6	26	1517.00	18½	6.84	.048	213	4.69	.051	209	4.79
2	27	403.00	24	25.71	.031	800	1.25	.032	785	1.27
3	27	605.00	22½	17.14	.031	533	1.87	.032	524	1.19
6	27	1210.00	19½	8.57	.043	267	3.75	.046	261	3.82
2	28	318.00	25	32.66	.027	1014	.986	.029	993	1.01
3	28	476.00	23½	21.78	.027	676	1.48	.029	662	1.51
6	28	953.00	20½	10.89	.039	338	2.96	.041	331	3.02
2	29	255.00	26	40.61	.025	1256	.787	.026	1231	.812
3	29	383.00	24½	27.07	.025	838	1.19	.026	821	1.22
6	29	766.00	21½	13.54	.035	419	2.39	.037	410	2.44
2	30	200.00	27	51.85	.022	1604	.623	.023	1568	.638
3	30	300.00	25½	34.57	.022	1068	.936	.023	1048	.954
6	30	600.00	22½	17.29	.031	534	1.87	.033	524	1.91
2	32	128.00	29	81.05	.0176	2498	.400	.019	2436	.410
3	32	192.00	27	54.00	.018	1695	.590	.019	1651	.606
6	32	384.00	24	27.00	.025	848	1.18	.027	826	1.21
2	34	79.00	31	130.65	.014	4027	.248	.015	3918	.255
3	34	119.00	29½	87.10	.014	2680	.373	.015	2627	.381
6	34	238.00	26½	43.55	.020	1340	.746	.021	1313	.762
2	36	50.00	33	207.40	.0112	6400	.156	.012	6190	.162
3	36	75.00	31	138.27	.011	4230	.236	.012	4151	.241
6	36	150.00	28½	69.13	.016	2115	.473	.017	2076	.482
2	38	32.00	35	324.10	.009	10010	.100	.0098	9680	.103
3	38	48.00	33	216.07	.009	6748	.148	.010	6549	.135
6	38	96.00	30	108.03	.013	3374	.296	.014	3274	.305
2	40	19.22	37	539.50	.007	16665	.060	.0076	15970	.063
3	40	28.83	35½	359.73	.007	10650	.0939	.008	10449	.0957
6	40	57.66	32½	179.87	.010	5325	.188	.011	5225	.1941
2	41	15.68	38	661.50	.0062	20400	.049	.0068	19670	.051
3	41	23.52	36½	441.00	.006	13495	.0741	.007	13228	.0756
6	41	47.04	33½	220.50	.009	6748	.148	.010	6614	.151
2	42	12.50	39	829.50	.0056	25470	.039	.006	24800	.040
3	42	18.75	37½	553.00	.006	17129	.0584	.006	16750	.0597
6	42	37.50	34½	276.50	.008	8564	.117	.009	8375	.119
2	43	9.68	40	1071.00	.005	33070	.030	.0054	31585	.032
3	43	14.52	38½	714.33	.005	21533	.0464	.005	20964	.0477
6	43	29.04	35½	357.17	.007	10767	.0929	.008	10482	.0954
2	44	8.00	41	1296.00	.0044	40030	.025	.005	38080	.026
3	44	12.00	39	864.33	.004	27034	.0370	.005	26247	.0381
6	44	24.00	36	432.17	.006	13517	.0740	.007	13123	.0762
2	45	6.20	42	1674.00	.0039	51750	.019	.0043	49555	.020
3	45	9.30	40½	1116.00	.0040	34500	.0290	.0045	33033	.0303
6	45	18.60	37½	558.00	.0055	17250	.0580	.0060	16517	.0605
2	46	4.94	43	2103.00	.0035	65000	.015	.0039	61900	.016
3	46	7.41	41	1402.23	.0035	43367	.0231	.0040	41267	.0242
6	46	17.82	38½	701.16	.0050	21683	.0461	.0055	20633	.0485
2	47	3.92	44	2645.00	.0032	81700	.012	.0036	77800	.013
3	47	5.88	42½	1763.67	.0030	54100	.0185	.0035	51533	.0194
6	47	11.76	39	881.83	.0045	27050	.0370	.0050	25767	.0388
2	48	3.08	45	3372.00	.0028	102450	.0098	.0031	98450	.0101
3	48	4.62	43	2248.33	.0030	68333	.0146	.0030	65567	.0153
6	48	9.24	40	1124.16	.0040	34167	.0293	.0045	32783	.0305

For twisted constructions not listed on this page, call or email our sales department.