

# NEWind® - Solid/ETFE Insulated Conductors

**DESCRIPTION:** Specialty winding wire for transformers and coils that doesn't require interleaving insulation between layers.

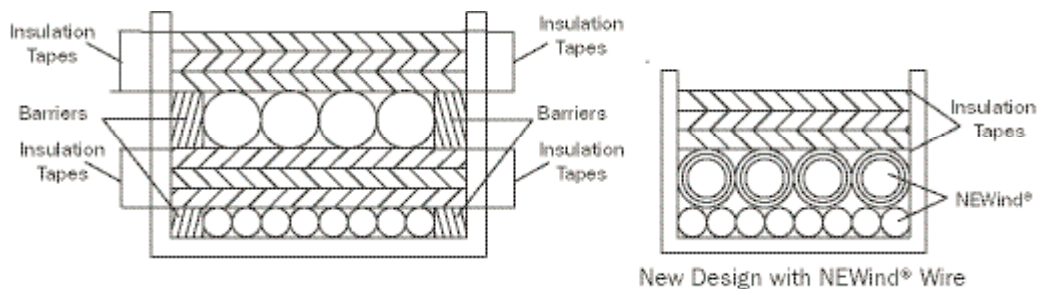
**Conductor Material:** Solid Copper  
**Insulation Thickness:** .0015" min per Layer  
**Voltage Rating:** Single Layer 600Vpk  
 Double & Triple Layer 1000 Vpk  
**Temperature Rating:** UL/VDE Class F 155° C  
**Dielectric Strength:** 1800 V/mil nominal

**Single Layer:** UL 60950 Annex U  
 UL File E205791  
**Double Layer:** UL 60950 Annex U  
 UL File E205791  
 IEC 60950 Annex U  
 VDE Reg. No. 135444  
**Triple Layer:** UL 60950 Annex U  
 UL File E205791  
 IEC 60950 Annex U  
 VDE Reg. No. 135445

CONDUCTOR		DC RESISTANCE		SINGLE INSULATION			DOUBLE INSULATION			TRIPLE INSULATION		
AWG	O.D.	Bare Copper	Tinned Copper	PART NUMBER	O.D.	LBS/1000 FT	PART NUMBER	O.D.	LBS/1000 FT	PART NUMBER	O.D.	LBS/1000 FT
18	.0403	6.516	6.995	W18S1.5EXTC1A	.0433	5.064	W18D1.5EXXTC1A	.0463	5.217	W18T1.5EXXTC1A	.0493	5.383
19	.0359	8.211	8.815	W19S1.5EXTC1A	.0389	4.023	W19D1.5EXXTC1A	.0419	4.171	W19T1.5EXXTC1A	.0449	4.322
20	.0320	10.330	11.090	W20S1.5EXTC1A	.0350	3.216	W20D1.5EXXTC1A	.0380	3.343	W20T1.5EXXTC1A	.0410	3.480
21	.0285	13.030	13.990	W21S1.5EXTC1A	.0315	2.563	W21D1.5EXXTC1A	.0345	2.677	W21T1.5EXXTC1A	.0375	2.802
22	.0253	16.530	17.750	W22S1.5EXTC1A	.0283	2.031	W22D1.5EXXTC1A	.0313	2.134	W22T1.5EXXTC1A	.0343	2.248
23	.0226	20.720	22.240	W23S1.5EXTC1A	.0256	1.630	W23D1.5EXXTC1A	.0286	1.724	W23T1.5EXXTC1A	.0316	1.828
24	.0201	26.190	28.120	W24S1.5EXTC1A	.0231	1.298	W24D1.5EXXTC1A	.0261	1.383	W24T1.5EXXTC1A	.0291	1.479
25	.0179	33.030	35.460	W25S1.5EXTC1A	.0209	1.037	W25D1.5EXXTC1A	.0239	1.115	W25T1.5EXXTC1A	.0269	1.203
26	.0159	41.860	44.940	W26S1.5EXTC1A	.0189	.826	W26D1.5EXXTC1A	.0219	.897	W26T1.5EXXTC1A	.0249	.978
27	.0142	52.480	56.340	W27S1.5EXTC1A	.0172	.665	W27D1.5EXXTC1A	.0202	.730	W27T1.5EXXTC1A	.0232	.805
28	.0126	66.660	71.560	W28S1.5EXTC1A	.0156	.530	W28D1.5EXXTC1A	.0186	.589	W28T1.5EXXTC1A	.0216	.659
29	.0113	82.880	88.970	W29S1.5EXTC1A	.0143	.431	W29D1.5EXXTC1A	.0173	.486	W29T1.5EXXTC1A	.0203	.551
30	.0100	105.800	113.600	W30S1.5EXTC1A	.0130	.343	W30D1.5EXXTC1A	.0160	.393	W30T1.5EXXTC1A	.0190	.454
31	.0089	133.900	143.800	W31S1.5EXTC1A	.0119	.276	W31D1.5EXXTC1A	.0149	.322	W31T1.5EXXTC1A	.0179	.379
32	.0080	166.200	178.400	W32S1.5EXTC1A	.0110	.227	W32D1.5EXXTC1A	.0140	.270	W32T1.5EXXTC1A	.0170	.324
33	.0071	211.700	228.200	W33S1.5EXTC1A	.0101	.182	W33D1.5EXXTC1A	.0131	.223	W33T1.5EXXTC1A	.0161	.273
34	.0063	269.800	289.600	W34S1.5EXTC1A	.0093	.147	W34D1.5EXXTC1A	.0123	.185	W34T1.5EXXTC1A	.0153	.233
35	.0056	342.800	368.100	W35S1.5EXTC1A	.0086	.120	W35D1.5EXXTC1A	.0116	.155	W35T1.5EXXTC1A	.0146	.200
36	.0050	431.900	463.700	W36S1.5EXTC1A	.0080	.098	W36D1.5EXXTC1A	.0110	.131	W36T1.5EXXTC1A	.0140	.175
37	.0045	535.700	575.100	W37S1.5EXTC1A	.0075	.082	W37D1.5EXXTC1A	.0105	.113	W37T1.5EXXTC1A	.0135	.155
38	.0040	681.900	732.000	W38S1.5EXTC1A	.0070	.068	W38D1.5EXXTC1A	.0100	.097	W38T1.5EXXTC1A	.0130	.137
39	.0035	897.100	963.100	W39S1.5EXTC1A	.0065	.054	W39D1.5EXXTC1A	.0095	.082	W39T1.5EXXTC1A	.0125	.120
40	.0031	1152.000	1237.000	W40S1.5EXTC1A	.0061	.045	W40D1.5EXXTC1A	.0091	.071	W40T1.5EXXTC1A	.0121	.108

- NOTES: 1. Double and triple insulated conductors are included in UL approved Electrical Insulation System designated as NE-F1.  
 2. Conductor DC resistance is provided as maximum Ohms/1000 Ft @ 20°C.  
 3. Our standard colors for these products include: clear, white, black, red, green, yellow, blue, brown, orange, gray and violet. Most are RoHS Compliant; please contact our design team to discuss your specific requirement.

Use of NEWind® Specialty Winding insulated conductors result in much smaller transformers due to decrease in number of winding wires required and removal of barrier tape and interleaved insulation tapes. Available in single layer of insulation, Supplementary (double layer) and Reinforced (triple layer) styles.



**USE:** Telecommunication devices, laptop computers, digital cameras, games and other electronic devices such as electronic transformers, power adapters, switching mode power supply modules, battery chargers for mobile phones, motors and coils.

All measurements are in inches unless otherwise stated.

www.newenglandwire.com  
 Tel: 603.838.6624