

NEWind® - Solid/PFA Insulated Conductors

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

Conductor Material: Solid Copper

Insulation Thickness: .002" min per layer

Note: .0015" min per layer available as custom design.

Voltage Rating: Single layer 600 Vpk

Double & Triple layers 1000 Vpk

Temperature Rating: UL/VDE Class H 180°/C

Dielectric Strength: 2000 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.135446

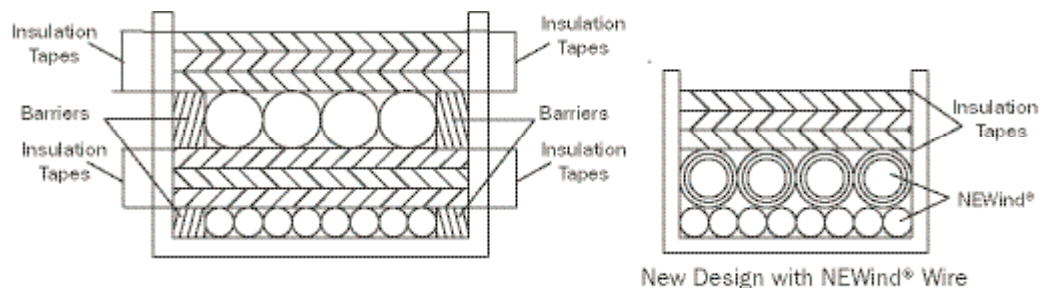
Triple Layer: UL 60950 Annex U UL File E205791

IEC 60950 Annex U VDE Reg. No.135447

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.
18	.0403	6.516	6.995	W18S2.OPXTC1A	.0443	5.061	W18D2.OPXXTC1A	.463	5.217	W18T2.OPXXTC1A	.0493	5.383
19	.0359	8.211	8.815	W19S2.OPXTC1A	.0389	4.031	W19D2.OPXXTC1A	.419	4.171	W19T2.OPXXTC1A	.0449	4.322
20	.0320	10.330	11.090	W20S2.OPXTC1A	.0350	3.216	W20D2.OPXXTC1A	.380	3.343	W20T2.OPXXTC1A	.0410	3.480
21	.0285	13.030	13.990	W21S2.OPXTC1A	.0315	2.563	W21D2.OPXXTC1A	.345	2.677	W21T2.OPXXTC1A	.0375	2.802
22	.0253	16.530	17.750	W22S2.OPXTC1A	.0283	2.031	W22D2.OPXXTC1A	.313	2.137	W22T2.OPXXTC1A	.0343	2.248
23	.0226	20.720	22.240	W23S2.OPXTC1A	.0256	1.630	W23D2.OPXXTC1A	.286	1.724	W23T2.OPXXTC1A	.0316	1.828
24	.0201	26.190	28.120	W24S2.OPXTC1A	.0231	1.298	W24D2.OPXXTC1A	.261	1.383	W24T2.OPXXTC1A	.0291	1.479
25	.0179	33.030	35.460	W25S2.OPXTC1A	.0209	1.037	W25D2.OPXXTC1A	.239	1.115	W25T2.OPXXTC1A	.0269	1.203
26	.0159	41.860	44.940	W26S2.OPXTC1A	.0189	.826	W26D2.OPXXTC1A	.219	.897	W26T2.OPXXTC1A	.0249	.978
27	.0142	52.480	56.340	W27S2.OPXTC1A	.0172	.665	W27D2.OPXXTC1A	.202	.730	W27T2.OPXXTC1A	.0232	.805
28	.0126	66.660	71.560	W28S2.OPXTC1A	.0156	.530	W28D2.OPXXTC1A	.186	.589	W28T2.OPXXTC1A	.0216	.659
29	.0113	82.880	88.970	W29S2.OPXTC1A	.0143	.431	W29D2.OPXXTC1A	.173	.486	W29T2.OPXXTC1A	.0203	.551
30	.0100	105.800	113.600	W30S2.OPXTC1A	.0130	.343	W30D2.OPXXTC1A	.160	.393	W30T2.OPXXTC1A	.0190	.454
31	.0089	133.900	143.800	W31S2.OPXTC1A	.0119	.276	W31D2.OPXXTC1A	.149	.322	W31T2.OPXXTC1A	.0179	.379
32	.0080	166.200	178.400	W32S2.OPXTC1A	.0110	.227	W32D2.OPXXTC1A	.140	.270	W32T2.OPXXTC1A	.0170	.324
33	.0071	211.700	228.200	W33S2.OPXTC1A	.0101	.182	W33D2.OPXXTC1A	.131	.223	W33T2.OPXXTC1A	.0161	.273
34	.0063	269.800	289.600	W34S2.OPXTC1A	.0093	.147	W34D2.OPXXTC1A	.123	.185	W34T2.OPXXTC1A	.0153	.233
35	.0056	342.800	368.100	W35S2.OPXTC1A	.0086	.120	W35D2.OPXXTC1A	.116	.155	W35T2.OPXXTC1A	.0146	.200
36	.0050	431.900	463.700	W36S2.OPXTC1A	.0080	.098	W36D2.OPXXTC1A	.110	.131	W36T2.OPXXTC1A	.0140	.175
37	.0045	535.700	575.100	W37S2.OPXTC1A	.0075	.082	W37D2.OPXXTC1A	.105	.113	W37T2.OPXXTC1A	.0135	.155
38	.0040	681.900	732.000	W38S2.OPXTC1A	.0070	.068	W38D2.OPXXTC1A	.100	.097	W38T2.OPXXTC1A	.0130	.137
39	.0035	897.100	963.100	W39S2.OPXTC1A	.0065	.054	W39D2.OPXXTC1A	.095	.082	W39T2.OPXXTC1A	.0125	.120
40	.0031	1152.000	1237.000	W40S2.OPXTC1A	.0061	.045	W40D2.OPXXTC1A	.091	.071	W40T2.OPXXTC1A	.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

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