

SUMMARY OF TOPICS

The following topic for the Standard for Single- and Multi-Layer Insulated Winding Wire, UL 2353, is being recirculated:

1. Revision to insulation thickness**COMMENTS DUE: November 12, 2018**

For your convenience in review, proposed additions to the previously proposed requirements dated (2018-06-15) are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Revision to insulation thickness**PROPOSAL**

6.11 For single and multi-layer wires, one thickness measurement is to be made in each of the 4 quadrants of the circular sample, for each ~~layer~~ total insulation thickness as shown in Figure 6.1. The measurements shall be made at thinnest point for ~~each layer~~ in a given quadrant. ~~For example, a reinforced insulation wire consisting of 3 layers should have three measurements made in each quadrant, one for the inner most layer, one for the middle layer and one for the outer layer. The diameter of the conductor and the overall conductor diameter (conductor and all layers of insulation) shall also be measured in the same fashion as the individual layers. The same logic applies for basic and supplementary insulation. The thickness of an enameled, bond coat or other non-insulating layer is not required to be measured.~~

6.14 ~~The minimum wall thickness for the insulation layers should be determined as shown in Table 6.1:~~

Table 6.1
Minimum wall thickness for insulation layers

Layers	18 AWG: Quadrant (mm)				32 AWG: Quadrant (mm)			
	1	2	3	4	1	2	3	4
Inner ^a	0.025	0.030	0.027	0.029	0.029	0.031	0.033	0.028
Middle ^b	0.040	0.039	0.044	0.037	0.045	0.046	0.042	0.038
Outer ^c	0.019	0.020	0.018	0.020	0.017	0.019	0.020	0.019
^a For the inner layer, 0.028 mm would be the minimum wall thickness since each wire size measured at least 0.028 mm in at least one quadrant.								
^b For the middle layer, 0.038 mm would be the minimum wall thickness since each wire size measured at least 0.038 mm in at least one quadrant.								
^c For the outer layer, 0.018 mm would be the minimum wall thickness since each wire size measured at least 0.018 mm in at least one quadrant.								

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