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INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO. 74: SAFETY AND ENERGY EFFICIENCY OF IT EQUIPMENT

Chairman's Advisory Panel - Q.43

TC74 established a Chairman's Advisory Panel in 1987. The purpose of the panel was to provide the opinion of experienced members of TC74 to questions of the intent of specific requirements in IEC 60950.

The following notes are to be read in conjunction with opinions of the Panel.

1. The Panel consists of active members of TC74, but its opinions are those of the Panel and are not voted decisions of the IEC.
2. Where it is felt that a query arose due to lack of clarity in a standard, the matter was brought to the attention of the appropriate group in TC74.
3. Panel opinions were restricted to interpretation of the words of the standard in question, as the members of the Panel recollect the original intentions of TC74. The Panel was not concerned with the application of the standard by test agencies and approval authorities.

Questions related to IEC 60950, Edition 3 are welcome. Such inquiries are to be forwarded through the questioner's National Committee to the TC74 Secretary. Responses are sent directly to the questioner, are shared with TC working group members through the TC74 IEC web site and sent to the Secretary of the IECEE/CTL for consideration.

TC 74 Chairman's Advisory Panel

QUESTION 43

April 2000

Question

IEC 60950, 2.10.5.4 specifies the requirements for insulation on wire for use between windings without interleaved insulation. In most cases, two or three constructional layers are required, applied to one conductor. Shouldn't the requirements allow for the possibilities of using one constructional layer on each conductor or other combinations?

Opinion of the Panel

The requirements should include these possibilities.

Action

Modify 2.10.5.4, second paragraph, to read as follows

In 2.10.5.4 c), the minimum number of constructional layers applied to the conductor or conductors shall be as follows:

- BASIC INSULATION: two wrapped layers or one extruded layer;
- SUPPLEMENTARY INSULATION: two layers, wrapped or extruded;
- REINFORCED INSULATION: three layers, wrapped or extruded.

Where more than one constructional layer is specified above, it is permitted for the total number of layers to be on one conductor or shared between the two conductors.