

References

 Standard(s)
(incl. year)

[IEC 60947-1: 2007 + AMD1:2010 + AMD2:2014]

 Subclause(s): 7.2.3.4
Table 15

Subject

[Creepage distances

 Submitted by:
LOVATO

 Date:
[2018-07-24]

Question

For printed circuits, distances are defined for the degree of pollution of microenvironment 1 and 2 and in the case of pollution degree 2 for all Material Groups excluding those classified IIIb

Table 15 – Minimum creepage distances

Rated insulation voltage of equipment or working voltage a.c. r.m.s. or d.c. b, c	Minimum creepage distances for equipment subject to long term stress													
	Printed wiring material		Pollution degree											
			1		2		3			4				
	Material groups													
V	All	All except IIIb	All	I	II	III	I	II	IIIa	IIIb	I	II	IIIa	IIIb
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm

Question:

Which are the distances to be apply in the cases not foreseen?

For example, in the case of pollution degree 3, we believe correct to refer to the general cases of table 15.

Analysis

The standard doesn't specify values for pollution degree 3 and 4.

Standard UL 840: 2005 (cl. 9.1) clarify that in the case of not specified cases general requirements must to be applied (not the specified printed circuit table).

Decision

[ACAE CT accept the UL 840 address and confirms that in the case of pollution degree 3 or more and in the case of pollution degree 2 for all Material Groups IIIb classified, table 15 (for general materials) must be applied.

Date: 2018-10-09

 Prepared by: Saverio Manganaro
(ACAE)

Approved by: ACAE Technical Committee 2018-10-19