

IEC 61010-1
(3rd edition – 2010)

**Safety requirements for electrical equipment for
measurement, control, and laboratory use –**

Part 1: General requirements

CEI 61010-1
(3ème édition – 2010)

**Règles de sécurité pour appareils électriques de
mesurage, de régulation et de laboratoire –**

Partie 1: Exigences générales

CORRIGENDUM 1

French corrections follow English text.

**Table 6 – CLEARANCES and test voltages for secondary circuits derived from MAINS
CIRCUITS of OVERVOLTAGE CATEGORY II up to 300 V**

Replace Table 6 with the following table:

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Table 6 – CLEARANCES and test voltages for secondary circuits derived from MAINS CIRCUITS of OVERVOLTAGE CATEGORY II up to 300 V

| Secondary WORKING VOLTAGE | | MAINS voltage, line-to-neutral, OVERVOLTAGE CATEGORY II | | | |
|---------------------------|------------------------|---|-------------------------------|--------------------------------|-------------------------------|
| | | ≤ 150 V a.c. r.m.s. | | > 150 V ≤ 300 V a.c. r.m.s. | |
| a.c. r.m.s. V | d.c. or a.c. peak V | CLEARANCE mm | Test voltage V a.c. r.m.s. | CLEARANCE mm | Test voltage V a.c. r.m.s. |
| 16 | 22,6 | 0,10 | 500 | 0,50 | 840 |
| 33 | 46,7 | 0,11 | 510 | 0,52 | 850 |
| 50 | 70 | 0,12 | 520 | 0,53 | 860 |
| 100 | 140 | 0,13 | 540 | 0,61 | 900 |
| 150 | 210 | 0,16 | 580 | 0,69 | 940 |
| 300 | 420 | 0,39 | 770 | 0,94 | 1 040 |
| 600 | 840 | 1,01 | 1 070 | 1,61 | 1 450 |
| 1 000 | 1 400 | 1,92 | 1 630 | 2,52 | 1 970 |
| 1 250 | 1 750 | 2,50 | 1 960 | 3,16 | 2 280 |
| 1 600 | 2 240 | 3,39 | 2 390 | 4,11 | 2 730 |
| 2 000 | 2 800 | 4,49 | 2 890 | 5,30 | 3 230 |
| 2 500 | 3 500 | 6,02 | 3 520 | 6,91 | 3 850 |
| 3 200 | 4 480 | 8,37 | 4 390 | 9,16 | 4 660 |
| 4 000 | 5 600 | 10,9 | 5 320 | 11,6 | 5 610 |
| 5 000 | 7 000 | 14,0 | 6 590 | 14,9 | 6 960 |
| 6 300 | 8 820 | 18,2 | 8 270 | 19,1 | 8 620 |
| 8 000 | 11 200 | 23,9 | 10 400 | 24,7 | 10 700 |
| 10 000 | 14 000 | 30,7 | 12 900 | 31,6 | 13 300 |
| 12 500 | 17 500 | 39,6 | 16 100 | 40,5 | 16 400 |
| 16 000 | 22 400 | 52,5 | 20 400 | 53,5 | 20 700 |
| 20 000 | 28 000 | 67,9 | 25 300 | 68,9 | 25 600 |
| 25 000 | 35 000 | 87,9 | 31 600 | 89,0 | 32 000 |
| 32 000 | 44 800 | 117 | 40 400 | 118 | 40 700 |
| 40 000 | 56 000 | 151 | 50 300 | 153 | 50 800 |
| 50 000 | 70 000 | 196 | 62 800 | 198 | 63 400 |
| 63 000 | 88 200 | 258 | 79 400 | 260 | 80 000 |

Linear interpolation is allowed.

Table K.9 – Minimum values for distance or thickness of solid insulation

Replace Table K.9 with the following table:

Table K.9 – Minimum values for distance or thickness of solid insulation

| Line-to-neutral voltage | Minimum thickness | Minimum distance L (see Figure K.2) |
|--------------------------------|--------------------------|--|
| V r.m.s. or d.c. | a mm | a, b mm |
| ≤ 300 | 0,4 | 0,4 |
| > 300 ≤ 600 | 0,6 | 0,6 |
| > 600 ≤ 1 000 | 1,0 | 1,0 |

^a These values are independent of the OVERVOLTAGE CATEGORY.

^b These values apply for BASIC INSULATION, SUPPLEMENTARY INSULATION and REINFORCED INSULATION.

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