



PERMANENT DOCUMENT

ENEC 303  
Annex T

**Annex T**  
**to Routine Test Requirements for manufacturers**  
**(as per Article 9 of the Agreement)**

**Cord switches and switches for appliances**  
**covered by EN 61058-1 and parts 2 (EN 61058-2-1, ~~and~~-2-5**  
**and 2-6)**

Draft  
To add EN IEC 61058-2-6

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# Annex T to PD ENEC 303

## Cord switches and switches for appliances covered by EN 61058-1 and parts 2 (EN 61058-2-1, ~~and-2-5~~ and 2-6)

### 1 ROUTINE TESTS (100%)

- 1.1 Visual check of content of marking as part of a sampling plan on all production unless a statistical quality control system is applied, which shows that a 100 % check of marking is not necessary.
- 1.2 Function test on appliance switches as part of a sampling plan on all production unless a statistical quality control system is applied, which shows that a 100% function test is not necessary.
- 1.3 Dielectric strength tests without humidity treatment as part of a sampling plan on all production unless a statistical quality control system is applied, which shows that a 100 % inspection is not necessary.

A practically sinusoidal voltage of about 50 Hz is applied for 1 s on the insulation of the appliance.

The voltage has to be applied between live parts and the external accessible metal parts.

The value of the test voltage (r.m.s. value) is given in the following table.

		Voltage			
Rated voltage of appliance	Over		50 V	130 V	250 V
	Up to and including	50 V	130 V	250 V	480 V
Test voltage	Functional, basic insulation	500 V	1000 V	1500 V	1500 V
Test voltage	Reinforced insulation	500 V	2600 V	3000 V	3000 V

#### 1.4 Routine tests to be conducted on cord switches

1.4.1 Earth connection test for class I appliances with a current of not less than 10 A, derived from a voltage source having a no-load voltage of up to 12 V, passed from the earth terminal to each accessible metal part.

- The voltage drop is measured and the resistance is calculated from the current and voltage drop.
- The resistance shall not exceed 50 mOhm.
- The test is conducted for the duration needed for the measurement to be made.

1.4.2 Dielectric strength test according to 1.3 of this document.

## 2 PERIODIC TESTS

### 2.1 Product verification test

A sample of each series/family (same basic construction) shall be subjected to complete tests or the main critical tests depending on the results of the pre-licence tests according to the standard at least once every two years.

At least the following test should be conducted:

- Endurance test according to clause 17.

### 2.2 Tests on plastic

Within a representative time period specified in written procedures, glow wire tests and ball pressure tests according to clause 21, and proof tracking tests according to annex D, should be conducted on samples of material representing the different switch constructions and materials in production. However, these tests do not apply if it is otherwise verified that the same raw materials, moulds and processes are used as for the type test. This may be accomplished as part of a molder's verification program. These tests may be part of incoming inspection rather than as part of production testing.