



PERMANENT DOCUMENT

**ENEC 303
Annex X**

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

**Flat non-rewirable two-pole plugs, 2.5 A 250 V, with cord,
for the connection of class II-equipment for household
and similar purposes, covered by EN 50075**

Approved by:	ECS General Meeting, 2011-04-12/13	No. of pages: 2
Date of issue:	March 2012	
Supersedes:	PD ENEC 303 Annex X – May 2004	Page 1 of 2

Annex X to PD ENEC 303

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1. ROUTINE TESTS (100%)

1.1 Skin test

It must be shown that live parts, for example split strands, are not accessible.

In so far as this cannot be guaranteed by the construction itself and the production process, the following test or a similar test (for example, an impulse voltage test) must be carried out:

The hazardous points of the external surface of the plugs, apart from the engagement faces, are traced with adapted surface electrodes at a pressure of 20 N, during which a voltage of 2000 Vac (effective value) is applied on the live parts for at least 1 second at a time. No breakdown or flashover shall occur. *)

1.2 Dielectric strength test between L and N (only for plugs incorporating a coil for electromagnetic interference suppression)

An electric strength test of 2000 V AC (effective value) for at least 1 second between L and N. No flashover or breakdown shall occur.

* The high voltage transformer shall be provided with a current sensing device (over-current device) tripping at a maximum of 30 mA. Tripping of the over-current-sensing device must give the indication "unacceptable". When loaded till the tripping current the transformer shall still provide the prescribed voltage.

Explanation: tripping of the current sensing device is regarded as a flashover or a breakdown.

2. PRODUCT VERIFICATION TESTS (PVT)

2.1 Dimensions according to section 7

2.2 Dielectric strength test according to section 11.2

2.3 Flexing test according to section 12.3

2.4 Torque test on the plug pins as prescribed in section 13.2

The tests of 2.1, 2.2 and 2.3 have to be performed by the manufacturer, at least 2 times per year, on 3 samples from each series/family (same construction) when in production.

The test of 2.4 has to be performed on at least 3 randomly selected samples of each production lot. The test of 2.4 may also be performed in the incoming inspection on 3 randomly selected samples of each lot of received inserts.