



PERMANENT DOCUMENT

**ENEC 303
Annex V**

ANNEX V
to Routine Test Requirements for manufacturers
(as per article 9 of the Agreement)

Connecting devices for household and similar purposes
covered by EN 60998-1 series, EN 60999-1

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Annex V to PD ENEC 303

Connecting devices for household and similar purposes covered by the EN 60998-1 series, EN 60999-1

1. ROUTINE TEST (100%)

1.1 Visual Check

If necessary, marking and design have to be checked i.e. check if the product is complete; visual errors shall not exist.

1.2 Function Test

Function test on connection devices 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.

If necessary, the function test has the following extent:

- Checking the connection of conductors

1.3 Dielectric Strength Test

Dielectric strength test without humidity treatment as a 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.

If necessary, the test has to be performed on all types of connecting devices.

An AC voltage of 50 Hz or 60 Hz is applied for at least 2 seconds on the insulation of the appliance. The voltage has to be applied between live parts and the external accessible metal parts.

The values of the test voltage are given in the following table.

Rated insulation voltage V	Test voltage V
≤130	1 250
>130 and ≤250	2 000
>250 and ≤450	2 500
>450 and ≤750	3 000
>750	3 500

During the test neither a flashover nor a breakdown shall occur.

2 PRODUCT VERIFICATION TESTS (PVT)

These tests have to be performed by the manufacturer, at least 4 times per year, on three samples from each series/family (same construction) when in production.

2.1 Dielectric Strength Test

The dielectric strength test has to be performed according to:

- EN 60998-1, Section 13.4

2.2 Mechanical Strength Test

The mechanical strength test has to be performed according to:

- EN 60998-2-1, Section 14
- EN 60998-2-2, Section 14
- EN 60998-2-3, Section 14

2.3 Connection of conductors

The connection of conductors test has to be performed according to Section 10 (of the relevant parts; except twist test part 2-1)

- EN 60998-2-1, Section 10.105
 - EN 60998-2-2, Section 10.106
 - EN 60998-2-3, Section 10.107
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