



**PERMANENT DOCUMENT**

**ENEC 303  
Annex AW**

**Annex AW  
to Routine Test Requirements for manufacturers  
(as per Article 9 of the Agreement)  
Connectors - Safety requirements and tests covered by  
EN 61984**

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## Annex AW to PD ENEC 303

### Connectors - Safety requirements and tests covered by EN 61984

#### 1 ROUTINE TESTS (100%)

##### Connectors - (EN 61984)

###### 1.1 Visual examination

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. At least the manufacturer's name or trade mark has to be visible on the product.

#### 2 PERIODIC TESTS

##### Connectors - (EN 61984)

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 Marking

A connector shall be marked in a durable and legible manner with the following:

- a) manufacturer's name, trademark or mark of origin;
- b) a type identification

###### 2.2 Dielectric strength test

Voltage proof (test 4a of IEC 60512)

The voltage proof test shall be performed by applying a r.m.s. withstand voltage with values as specified in Table 8 according to test 4a of IEC 60512. The test duration shall be 1 min.

**Table 8 – Test voltages**

Rated impulse voltage Uimp kV	Test voltages Impulse withstand voltage <sup>a</sup> kV (1,2/50 µs)		r.m.s. withstand voltage kV (50/60 Hz)
	At 2000 m	At sea level	
0,5	0,5	0,55	0,37
0,8	0,8	0,91	0,50
1,5	1,5	1,75	0,84
2,5	2,5	2,95	1,39
4	4	4,8	2,21
6	6	7,3	3,31
8	8	9,8	4,26
12	12	14,8	6,60

a If the test laboratory is located between sea level and an altitude of 2 000 m, interpolation of the impulse withstand voltage is allowed.

NOTE This table uses the characteristics of an inhomogeneous field, case A of IEC 60664-1