

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

BASIC EMC PUBLICATION  
PUBLICATION FONDAMENTALE EN CEM

AMENDMENT 1  
AMENDEMENT 1

**Electromagnetic compatibility (EMC) –  
Part 4-18: Testing and measurement techniques – Damped oscillatory wave  
immunity test**

**Compatibilité électromagnétique (CEM) –  
Partie 4-18: Techniques d'essai et de mesure – Essai d'immunité à l'onde  
oscillatoire amortie**



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## FOREWORD

This amendment has been prepared by subcommittee 77B: High frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

The text of this amendment is based on the following documents:

Enquiry draft	Report on voting
77B/604/CDV	77B/633/RVC

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

### 6.1.4 Verification of the characteristics of the test generator

*Replace the last paragraph by the following:*

The waveform characteristics shall be verified directly at the output of the test generator with open circuit and short circuit load impedances.

### 6.2 Specifications of the coupling/decoupling network

*Replace the first paragraph by the following:*

The coupling/decoupling network (CDN) provides both the ability to apply the test voltage in either common (for both generators) or differential (only 100 kHz, 1 MHz) mode to the mains, signal and control ports of the EUT (equipment under test), and prevents test voltage from affecting any auxiliary equipment needed to perform the test. The waves shall be within the tolerances of 6.1.1 or 6.1.2 at the EUT port of the CDN. Verifications shall be made port by port with the short circuit test load impedance of 0,1  $\Omega$ , e.g. 3-phase CDN: L1 to PE, L2 to PE, L3 to PE, N to PE.

## 8 Test procedure

*Replace the first paragraph by the following:*

The performance of the test equipment shall be checked prior to the test. This check can usually be limited to the existence of the damped oscillatory wave at the output of the coupling/decoupling network.