
Communication cables - Specifications for test methods - Part 4-1: Environmental test methods - General requirements

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Câbles de communication - Spécifications des méthodes d'essai -- Partie 4-1: Méthodes d'essais d'environnement - Prescriptions générales

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EUROPEAN STANDARD

EN 50289-4-1

NORME EUROPÉENNE

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English version

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Part 4-1: Environmental test methods –
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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 46X, Communication cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50289-4-1 on 2001-05-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2002-04-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2004-04-01

This European Standard has been prepared under the European Mandate M/212 given to CENELEC by the European Commission and the European Free Trade Association.

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1 Scope

The series of part 4 of the European Standard EN 50289 specifies the environmental test methods for cables used in analogue and digital communication systems.

Part 4 of EN 50289 consists of the following documents:

- Part 4-1 Environmental test methods - General requirements
- Part 4-2 Environmental test methods - Water penetration
- Part 4-3 Environmental test methods - Moisture permeation
- Part 4-4 Environmental test methods - Resistance to solvents and contaminating fluids
- Part 4-5 Environmental test methods - Climatic sequence
- Part 4-6 Environmental test methods - Temperature cycling
- Part 4-7 Environmental test methods - Damp heat steady state
- Part 4-8 Environmental test methods - Nuclear radiation
- Part 4-9 Environmental test methods - Pneumatic resistance
- Part 4-10 Environmental test methods - Ageing
- Part 4-11 Environmental test methods - A horizontal integrated fire test method
- Part 4-12 Environmental test methods - Acid gas evolution
- Part 4-13 Environmental test methods - Smoke generation
- Part 4-14 Environmental test methods - Lightning
- Part 4-15 Environmental test methods - Toxic gas emission
- Part 4-16 Environmental test methods - Fire resistance

Further test details (e.g. temperature, duration) and/or test requirements are given in the relevant cable standard.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

EN 50290-1-2 ¹⁾ Communication cables - Part 1-2: Definitions

3 Definitions

For the purposes of this European Standard, the definitions of EN 50290-1-2 apply.

¹⁾ At draft stage.

4 Sampling

4.1 Cable under test (CUT)

Unless otherwise specified in the relevant test method, the length of CUT shall be selected to take into account the dynamic range of the measuring equipment to yield the required level of accuracy. The length should be measured with an accuracy better than 1 % unless otherwise stated in the relevant cable specification.

4.2 Pre-conditioning

The CUT shall be pre-conditioned at a constant ambient temperature for such time as to allow the specimen temperature to stabilize according to 6.1.

5 Tests

The tests required and performance characteristics applicable to each type of cable are given in the relevant cable standard.

6 Test conditions

6.1 Ambient temperature

Tests shall be made at an ambient temperature within the range 15 °C to 35 °C unless otherwise specified.

6.2 Tolerance on temperature values

Unless otherwise specified in the relevant specification, the tolerance on temperature shall be ± 2 °C.

7 Equipment calibration

7.1 Calibration

Equipment calibration shall be considered part of the quality system.

8 Test report

The test report shall show the relevant measuring conditions including their tolerances together with the measurement results and their accuracy.