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IRISH STANDARD

**I.S. EN 50173:1997**

ICS 35.020

National Standards  
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**INFORMATION TECHNOLOGY  
GENERIC CABLING SYSTEMS**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 50173/A1**

January 2000

ICS 33.040.50

English version

**Information technology - Generic cabling systems**

Technologies de l'information  
Systèmes génériques de câblage

Informationstechnik  
Anwendungsneutrale  
Verkabelungssysteme

This amendment A1 modifies the European Standard EN 50173:1995; it was approved by CENELEC on 2000-01-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**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 amendment was prepared by CENELEC Technical Committee TC 215 "Electrotechnical aspects of telecommunication equipment" under the framework of Mandate M/212 on telecommunication cables and cabling systems.

The text of the draft was submitted to the formal vote and was approved by CENELEC as amendment A1 to EN 50173 on 2000-01-01

The following dates were fixed

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2001-01-01
  - latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2002-01-01
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## **Foreword of EN 50173**

Replace twice "TC 115" by "TC 215" and **replace** "prEN 50098-2" by "EN 50098-2"

## **Clause 2**

**Add** after EN 50082-1 the following references:

EN 50174-1 Information technology – Cabling installation - Part 1: Specification and quality assurance

EN 50289-1-6 (in preparation) Communication cables - Specifications for test methods - Part 1-6: Electrical test methods - Electromagnetic performance

and

EN 50289-1-9 (in preparation) Communication cables - Specifications for test methods – Part 1-9: Electrical test methods - Longitudinal conversion loss (unbalance attenuation)

**Amend** reference to EN 55022 to read: „(IEC/CISPR 22:1997)“

**Add** after EN 55022 the following reference.

EN 55024 Information technology equipment - Immunity characteristics - Limits and methods of measurement (IEC/CISPR 24:1997)

**Amend** reference to EN 60603-7 to read: „(IEC 60603-7:1996)“

**Add** after EN 60825-2 the following reference:

EN 61935-1 (in preparation) Generic specification for the testing of balanced generic cabling in accordance with ISO/IEC 11801 – Part 1: Test methods (IEC 61935-1)

**Replace** HD 323 2 14 by

EN 60068-2-14 Environmental testing - Part 2 Tests - Test N: Change of temperature (IEC 60068-2-14:1984 + A1:1986)“

**Replace** HD 323.2.38 by

EN 60068-2-38 Environmental testing - Part 2: Tests – Test Z/AD: Composite temperature/humidity cyclic test (IEC 60068-2-38:1974)“

**Add** "60000" to any IEC number

## **Subclause 3.2**

**Add** the following abbreviations:

ELFEXT Equal level far-end crosstalk loss

FEXT Far-end crosstalk loss

PSACR Power sum attenuation to crosstalk loss ratio

PSELFEXT Power sum equal level far-end crosstalk loss

PSNEXT Power sum near-end crosstalk loss

## **Subclause 5.1**

**Replace** the 5<sup>th</sup> paragraph by:

100  $\Omega$  and 120  $\Omega$  connecting hardware shall only provide a single direct onward connection for each conductor and shall not provide any electrical contact between conductors. For example bridged taps shall not be used.

**Subclause 5.2.1**

Replace the existing subclause 5.2.1 by the following text (including figures):

**5.2.1 Horizontal distances**

The maximum horizontal cable length shall be 90 m independent of medium (see figure 6). This is the cable length from the mechanical termination of the cable in the floor distributor to the telecommunications outlet in the work area.

In establishing the maximum length of the horizontal channel, the optional use of a crossconnect or an interconnect places different requirements on the total length of the flexible cables used

Figure 7 shows examples of horizontal channel implementations which reflect these differing requirements of maximum cable length

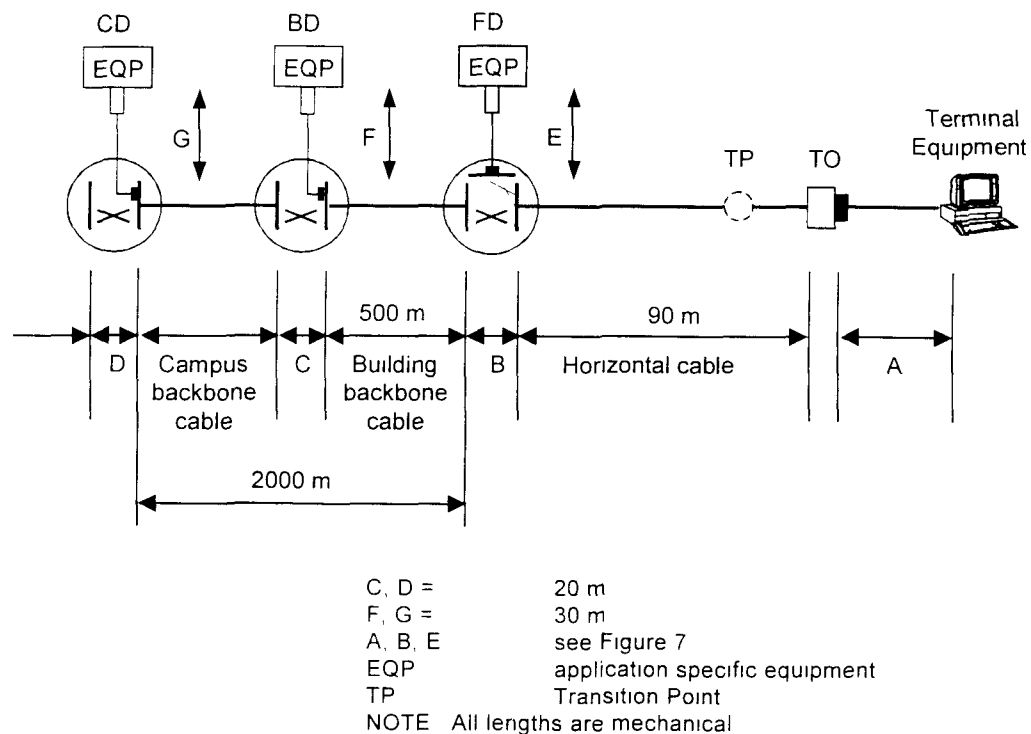
In Figure 7a, the maximum total length of work area cable, equipment cable and patch cord is 9 m based upon flexible cables with 50% greater attenuation (dB/m) than the horizontal cable and includes a crossconnect in the floor distributor.

In Figure 7b, the maximum total length of work area cable and equipment cable is 10 m also based upon flexible cables with 50% greater attenuation (dB/m) than the horizontal cable and includes an interconnect in the floor distributor.

In both cases the transition point is optional. It is required that the performance of the horizontal cabling is not degraded by the inclusion of the transition point.

For optical fibre, the implementation is shown in Figure 7c. An optical fibre splice, in accordance with clause 8, is allowed at both ends of the horizontal cable.

See clause 8 and Annex C for requirements for patch cords and other flexible cables. In all cases, equipment cables that meet or have better performance characteristics than patch cord requirements are recommended



**Figure 6 - Maximum cable lengths**

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