



NSAI
Standards

Irish Standard
I.S. EN 61935-2-20:2009

Testing of balanced communication cabling in accordance with series EN 50173 - Part 2-20: Patch cords and work area cords - Blank detail specification for class D applications (IEC 61935-2-20:2008 (MOD))

I.S. EN 61935-2-20:2009

Incorporating amendments/corrigenda issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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ICS 33.120.20

English version

**Testing of balanced communication cabling
in accordance with series EN 50173 -
Part 2-20: Patch cords and work area cords -
Blank detail specification for class D applications
(IEC 61935-2-20:2008, modified)**

Essais de câblage de télécommunications
symétrique selon la série EN 50173 -
Partie 2-20: Cordons de brassage
et cordons de zones de travail -
Spécification particulière cadre
pour applications de classe D
(CEI 61935-2-20:2008, modifiée)

Prüfung der symmetrischen
Kommunikationsverkabelung
nach der Normenreihe EN 50173 -
Teil 2-20: Rangierschnüre
und Geräteanschlussschnüre -
Vordruck für Bauartspezifikation
für Anwendungen der Klasse D
(IEC 61935-2-20:2008, modifiziert)

This European Standard was approved by CENELEC on 2008-06-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 European Standard 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

I.S. EN 61935-2-20:2010

EN 61935-2-20:2009

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Foreword

The text of document 46/270/FDIS, future edition 1 of IEC 61935-2-20, prepared by IEC TC 46, Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61935-2-20 on 2008-06-01.

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) 2010-07-01

- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2011-06-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61935-2-20:2008 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

Title page

Replace "ISO/IEC 11801" by "series EN 50173".

Clause 1, Scope

Replace "ISO/IEC 11801" by "EN 50173-1" and "ISO/IEC 24702" by "EN 50173-3".

Clause 2, Normative references

Replace the references to ISO/IEC 11801 and ISO/IEC 24702 by

EN 50173-1, *Information technology - Generic cabling systems – Part 1: General requirements*

EN 50173-3, *Information technology - Generic cabling systems – Part 3: Industrial premises*

General

Replace all other occurrences of "ISO/IEC 11801" by "EN 50173-1". This replacement is to be made in Entry [5] of the table in Clause 4.

Replace all other occurrences of "ISO/IEC 24702" by "EN 50173-3". This replacement is to be made in Clause 3 (twice) and in footnotes d, g, h and i of the table in Clause 4.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
–	–	Information technology - Generic cabling systems - Part 1: General requirements	EN 50173-1	- ¹⁾
–	–	Information technology - Generic cabling systems - Part 3: Industrial premises	EN 50173-3	- ¹⁾
–	–	Communication cables - Specifications for test methods - Part 1-13: Electrical test methods - Coupling attenuation or screening attenuation of patch cords / coaxial cable assemblies / pre-connectorised cables	EN 50289-1-13	- ¹⁾
IEC 60603-7-2	- ¹⁾	Connectors for electronic equipment - Part 7-2: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 100 MHz	EN 60603-7-2	2009 ²⁾
IEC 60603-7-3	- ¹⁾	Connectors for electronic equipment - Part 7-3: Detail specification for 8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 100 MHz	EN 60603-7-3	2009 ²⁾
IEC 60794-1-2	- ¹⁾	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures	EN 60794-1-2	2003 ²⁾
IEC 61156-1	2007	Multicore and symmetrical pair/quad cables for digital communications - Part 1: Generic specification	-	-
IEC 61156-6	2007	Multicore and symmetrical pair/quad cables for digital communications - Part 6: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Work area wiring - Sectional specification	-	-
IEC 61935-2 (mod)	2005	Testing of balanced communication cabling in accordance with standards series EN 50173 - Part 2: Patch cords and work area cords	EN 61935-2 + corr. December	2005 2005

¹⁾ Undated reference.

²⁾ Valid edition at date of issue

I.S. EN 61935-2-20:2010

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62012-1	- ¹⁾	Multicore and symmetrical pair/quad cables for digital communications to be used in harsh environments - Part 1: Generic specification	EN 62012-1	2002 ²⁾

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**TESTING OF BALANCED COMMUNICATION
CABLING IN ACCORDANCE WITH ISO/IEC 11801 –**

**Part 2-20: Patch cords and work area cords –
Blank detail specification for class D applications**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61935-2-20 has been prepared by IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

This first edition cancels and replaces the ISO/IEC PAS 61935-2-20 published in 2007. It constitutes a technical revision.

This bilingual version, published in 2009-05, corresponds to the English version.

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

FDIS	Report on voting
46/270/FDIS	46/278/RVD

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

The French version of this standard has not been voted upon.

This blank detail specification is to be used in conjunction with IEC 61156-1, IEC 61156-6, IEC 60603-7-2 and IEC 60603-7-3.

A list of all parts of the IEC 61935 series can be found, under the general title *Testing of balanced communication cabling in accordance with ISO/IEC 11801*, on the IEC website.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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.

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