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INTERNATIONAL STANDARD

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Specification for the testing of balanced and coaxial information technology cabling – Part 2-22: Category 6A cords as specified in ISO/IEC 11801-1 – Blank detail specification



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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SPECIFICATION FOR THE TESTING OF BALANCED AND COAXIAL INFORMATION TECHNOLOGY CABLING –

Part 2-22: Category 6_A cords as specified in ISO/IEC 11801-1 – Blank detail specification

FOREWORD

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International Standard IEC 61935-2-22 has been prepared by IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories.

The text of this International Standard is based on the following documents:

Draft	Report on voting
46/519/CDV	46/541A/RVC

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

The language used for the development of this International Standard is English.

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This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 61935 series, published under the general title *Generic cabling systems – Specification for the testing of balanced communication cabling* in accordance with ISO/IEC 11801, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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- withdrawn,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

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SPECIFICATION FOR THE TESTING OF BALANCED AND COAXIAL INFORMATION TECHNOLOGY CABLING –

Part 2-22: Category 6_A cords as specified in ISO/IEC 11801-1 – Blank detail specification

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1 Scope

This part of IEC 61935 is a blank detail specification describing cords which are compliant with category 6 cabling requirements, as specified in the ISO/IEC 11801-1.

ISO/IEC 11801 and ISO/IEC 11801 series definitions and specifications referenced by this blank detail specification are currently covered by ISO/IEC 11801-1.

This document is intended to be used in conjunction with IEC 61935-2, IEC 61156-1, IEC 61156-6, IEC 60603-7-41 and IEC 60603-7-51. The blank detail specification determines the layout and style for detail specifications describing cords with transmission characteristics up to 500 MHz for digital communications. Detail specifications, based on the blank detail specification, can be prepared by a national organization, a manufacturer, or a user.

Test configuration applicable to cords is detailed in the IEC 61935-2.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO/IEC 11801-1, *Information technology – Generic cabling for customer premises – Part 1: General requirements*

IEC 60603-7-41, *Connectors for electronic equipment – Part 7-41: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 500 MHz*

IEC 60603-7-51, *Connectors for electronic equipment – Part 7-51: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 500 MHz*

IEC 60794-1-22, *Optical fibre cables – Part 1-22: Generic specification – Basic optical cable test procedures – Environmental tests methods*

ISO/IEC 61156-1:2007, *Multicore and symmetrical pair/quad cables for digital communications – Part 1: Generic specification*

IEC 61156-5, *Multicore and symmetrical pair/quad cables for digital communications – Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz – Horizontal floor wiring – Sectional specification*

IEC 61156-6:2010[1], *Multicore and symmetrical pair/quad cables for digital communications – Part 6: Symmetrical pair/quad cables with transmission characteristics up to 1000 MHz – Work area wiring – Sectional specification*
IEC 61156-6:2010/AMD1:2012

IEC 61935-2:2010, *Specification for the testing of balanced and coaxial information technology cabling – Part 2: Cords as specified in ISO/IEC 11801 and related standards*

IEC 62012-1:2002, *Multicore and symmetrical pair/quad cables for digital communications to be used in harsh environments – Part 1: Generic specification*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

4 Guidance for preparation of detail specifications

It is necessary to keep the transmission characteristics indicated in the relevant sectional specification for the referenced category number, i.e. 6_A and the characteristic impedance.

The detail specification shall be written in accordance with the layout of the blank detail specification, which forms part of this document.

NOTE 1 When a characteristic does not apply, then na (for not applicable) can be entered in the appropriate space.

NOTE 2 When a characteristic applies but a specific value is not considered necessary, then ns (for not specified) can be entered in the appropriate space. When ns is used, the appropriate requirement in the sectional specification applies.

The numbers shown in brackets in this and the following pages correspond to the following items of required information, which should be entered in the spaces provided.

[1] Name and address of the organization that has prepared the document.

[2] IEC document number, issue number and date of issue.

[3] Address of the organization from which the document is available.

[4] Related documents.

[5] Any other reference to the cable, national reference, trade name, etc.

[6] A complete description of the cord which shall include

a) type and number of elements;

b) nominal impedance;

c) screening;

d) application;

e) specific category of cord, cable and connectors;

f) other distinguishing performance characteristics.

[1] A 2020 edition of this document exists but the listed edition applies.

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