IEC 61935-2-21

Edition 1.0 2021-12

INTERNATIONAL STANDARD

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Specification for the testing of balanced and coaxial information technology cabling – Part 2-21: Category 6 cords as specified in ISO/IEC 11801-1 – Blank detail specification

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ICS 33.120.10

ISBN 978-2-8322-1058-1

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 2-21: Category 6 cords as specified in ISO/IEC 11801-1 − Blank detail specification

FOREWORD

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International Standard IEC 61935-2-21 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
46/513/CDV	46/540A/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.

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- withdrawn,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 2-21: Category 6 cords as specified in ISO/IEC 11801-1 − Blank detail specification

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 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 60603-7-4 and IEC 60603-7-5. The blank detail specification determines the layout and style for detail specifications describing cords with transmission characteristics up to 250 MHz for digital communications. Detail specifications, based on the blank detail specification, can be prepared by a national organization, a manufacturer, or a user.

The test configuration applicable to cords is detailed in 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.

IEC 60603-7-4, *Connectors for electronic equipment – Part 7-4: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 250 MHz*

IEC 60603-7-5, *Connectors for electronic equipment – Part 7-5: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 250 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

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

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*

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