

# INTERNATIONAL STANDARD

AMENDMENT 1

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**Specification for the testing of balanced and coaxial information technology cabling -  
Part 2: Cords as specified in ISO/IEC 11801-1 and related standards**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Specification for the testing of balanced  
and coaxial information technology cabling -  
Part 2: Cords as specified in ISO/IEC 11801-1 and related standards**

**AMENDMENT 1**

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Amendment 1 to IEC 61935-2:2022 has been prepared by IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories.

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

Draft	Report on voting
46/1036/CDV	46/1063/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 Amendment is.

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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications/](http://www.iec.ch/publications/).

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- reconfirmed,
- withdrawn, or
- revised.

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## INTRODUCTION to the Amendment

The goal of this amendment is:

- to extend component requirements for balanced and coaxial cords to balanced single-pair cords.
- to extend transmission requirements for balanced and coaxial cords to balanced single-pair cords.
- to extend test procedures for balanced and coaxial cords to balanced single-pair cords.

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## 1 Scope

*Add, after the first paragraph, the following:*

Balanced cords can be one of two types specified in ISO/IEC 11801-1:

- 1) balanced twisted-pair cords, or
- 2) balanced single-pair cords.

## 2 Normative references

*Add the following new references:*

IEC 61156-11, *Multicore and symmetrical pair/quad cables for digital communications - Part 11: Symmetrical single pair cables with transmission characteristics up to 1,25 GHz - Horizontal floor wiring - Sectional specification*

IEC 61156-12, *Multicore and symmetrical pair/quad cables for digital communications - Part 12: Symmetrical single pair cables with transmission characteristics up to 1,25 GHz - Work area wiring - Sectional specification*

IEC 61156-13, *Multicore and symmetrical pair/quad cables for digital communications - Part 13: Symmetrical single pair cables with transmission characteristics up to 20 MHz - Horizontal floor wiring - Sectional specification*

IEC 61156-14, *Multicore and symmetrical pair/quad cables for digital communications - Part 14: Symmetrical single pair cables with transmission characteristics up to 20 MHz - Work area wiring - Sectional specification*

IEC 61935-4:–<sup>1</sup>, *Specification for the testing of balanced and coaxial information technology cabling – Part 4: Installed balanced single-pair cabling as specified in ISO/IEC 11801-1 and related standards*

IEC 62153-4-7, *Metallic cables and other passive components test methods – Part 4-7: Electromagnetic compatibility (EMC) - Test method for measuring of transfer impedance  $Z_T$  and screening attenuation  $\alpha_S$  or coupling attenuation  $\alpha_C$  of connectors and assemblies - Triaxial tube in tube method*

IEC 63171 (all parts), *Connectors for electrical and electronic equipment*

## 4 Requirements

### 4.1 Cord components: cable and connector

*Add, after the fourth paragraph, the following:*

Balanced single-pair cord cable components shall conform to the requirements given in IEC 61156-11, IEC 61156-12, IEC 61156-13, and IEC 61156-14, and in the blank detail specifications. Balanced cord connector components shall conform to the requirements given in the IEC 63171 series, and in the blank detail specifications.

### 4.3.2 Electrical transmission parameters, test fixtures and reference test heads

*Add, after 4.3.2.3, the following new subclause:*

#### 4.3.2.4 Balanced single-pair cords transmission parameters test requirements

Balanced single-pair cords transmission parameters test shall conform to the requirements of IEC 61935-4 and IEC TR 61156-1-2, and according to Annex C.

## 5 Acceptance tests and additional optional tests

### 5.9 Coupling attenuation (screened balanced cords)

*Add, after the second paragraph, the following:*

Coupling attenuation measurements and tests shall also be performed in accordance with IEC 62153-4-7, IEC 62153-4-11, and IEC 62153-4-15.

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<sup>1</sup> Under preparation. Stage at the time of publication: IEC CDV 61935-4:2026.