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INTERNATIONAL STANDARD

**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**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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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

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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.

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.

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- withdrawn;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.

A bilingual version of this publication may be issued at a later date.

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

1 Scope

This blank detail specification describes work area cord for class D applications, as defined in ISO/IEC 11801 as well as in the ISO/IEC 24702.

This blank detail specification determines the layout and style for detail specifications describing cords with transmission characteristics up to 100 MHz for digital communications. Detail specifications, based on this blank detail specification, may be prepared by a national organization, a manufacturer, or a user.

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

The designation "Category 5e" is used herein to describe an enhanced category 5 cable (see 1 of IEC 61156-6).

2 Normative references

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.

IEC 60603-7-2, *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*

IEC 60603-7-3, *Connectors for electronic equipment – Part 7-3: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 100 MHz*

IEC 60794-1-2, *Optical fibre cables – Part 1-2: Generic specification – Basic optical cable test procedures*

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 61935-2:2005, *Testing of balanced communication cabling in accordance with ISO/IEC 11801 – Patch cords and work area cords*

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

ISO/IEC 11801, *Information technology – Generic cabling for customer premises*

ISO/IEC 24702, *Information technology – Generic cabling – Industrial premises*

EN 50289-1-13, *Electrical test methods – Coupling attenuation or screening attenuation of patch cords / coaxial cable assemblies / pre-connectorised cables*¹

¹ The EN 50289-1-13 will be replaced with equivalent IEC publication when available.