

Testing of balanced communication cabling in accordance with standards series EN 50173 —

Part 2: Patch cords and work area cords

The European Standard EN 61935-2:2005 has the status of a
British Standard

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National foreword

This British Standard is the official English language version of EN 61935-2:2005, including corrigendum December 2005. It is identical with IEC 61935-2:2005. It supersedes BS EN 61935-2:2003 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/46, Cables, wires and waveguides, R.F. connectors and accessories for communication and signalling, which has the responsibility to:

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Summary of pages

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English version

**Testing of balanced communication cabling in accordance
with standards series EN 50173
Part 2: Patch cords and work area cords
(IEC 61935-2:2005)**

Essais de câblages
de télécommunications symétriques
selon la série de normes EN 50173
Partie 2: Cordons de brassage et cordons
de zone de travail
(CEI 61935-2:2005)

Prüfung der symmetrischen
Kommunikationsverkabelung
nach der Normenreihe EN 50173
Teil 2: Rangierschnüre und
Geräteanschlusschnüre
(IEC 61935-2:2005)

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CENELEC

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

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Foreword

The text of document 46A/726/FDIS, future edition 2 of IEC 61935-2, prepared by SC 46A, Coaxial cables, of 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 on 2005-10-01.

This European Standard supersedes EN 61935-2:2003 + corrigendum September 2003.

Significant technical changes with respect to EN 61935-2:2003 include requirements for NEXT.

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) 2006-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2008-10-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61935-2:2005 was approved by CENELEC as a European Standard without any modification.

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INTRODUCTION

Modular plug cords are constructed for connecting equipment using modular connecting hardware. It is known that connecting hardware performance is subject to influence by the properties of the modular plug termination and, therefore, modular plug cords should be tested to determine the quality of the assembly. Moreover, the performance of modular plug cords may differ due to the performances of the separate components involved depending upon the efficiency of the manufacturing procedure. Manufacturing procedures also have an impact on the reliability of these cords. This part of IEC 61935 provides test methods to ensure the compatibility of modular plug cords to be used in cabling according to EN 50173. It also provides test methods and associated requirements to demonstrate the performance and reliability of these cords during their operational lifetime.

TESTING OF BALANCED COMMUNICATION CABLING IN ACCORDANCE WITH EN 50173

Part 2: Patch cords and work area cords

1 Scope

This part of EN 61935 provides methods to ensure the compatibility of modular plug cords to be used in cabling according to EN 50173 and provides test methods and associated requirements to demonstrate the performance and reliability of these cords during their operational lifetime.

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.

EN 50173, series, *Information technology – Generic cabling systems*

EN 61935-1:2005, *Generic cabling systems – Specification for the testing of balanced communication cabling in accordance with standards series EN 50173 – Part 1: Installed cabling* (IEC 61935-1:2005, mod.)

IEC 60068-2-61, *Environmental testing – Part 2-61: Test methods – Test Z/ABDM: Climatic sequence*

IEC 60603-7 (all parts), *Connectors for frequencies below 3 MHz for use with printed boards – Part 7: Detail specification for connectors, 8-way, including fixed and free connectors with common mating features, with assessed quality*

IEC 61076-3-104: *Connectors for electronic equipment – Part 3-104: Rectangular connectors – Detail specification for 8-way shielded free and fixed connectors for data transmissions with frequencies up to 600 MHz minimum*

IEC 61156 (all parts) , *Multicore and symmetrical pair/quad cables for digital communications*

IEC 62153-4-7 *Metallic communication cable test methods – Part 4-7: Electro Magnetic Compatibility (EMC) – Shielded screening attenuation test method for measuring the transfer impedance Z_T and the screening attenuation a_s or the Coupling attenuation a_c of RF-Connectors and Assemblies up to and above 3 GHz¹*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 61935-1 apply.

¹ To be published.