

**Generic cabling systems - Specification for the testing of balanced communication cabling in accordance with EN 50173-4 - Unscreened straight patch cords and straight work area cords for class D applications - Detail specification**

## EESTI STANDARDI EESSÕNA

See Eesti standard EVS-EN 50601:2014 sisaldab Euroopa standardi EN 50601:2014 ingliskeelset teksti.

Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.

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## NATIONAL FOREWORD

This Estonian standard EVS-EN 50601:2014 consists of the English text of the European standard EN 50601:2014.

This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.

Date of Availability of the European standard is 07.02.2014.

The standard is available from the Estonian Centre for Standardisation.

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English version

**Generic cabling systems -  
Specification for the testing of balanced communication cabling in  
accordance with EN 50173-4 -  
Unscreened straight patch cords and straight work area cords for class D  
applications -  
Detail specification**

Systèmes de câblage générique -  
Spécification relative aux essais de  
câblage de télécommunications  
symétriques selon l'EN 50173-4 -  
Cordons droits de brassage et cordons  
droits de zone de travail non écrantés  
pour les applications de classe D -  
Spécification particulière

Anwendungsneutrale  
Kommunikationsverkabelung -  
Spezifikation zur Prüfung der  
symmetrischen  
Kommunikationsverkabelung nach  
EN 50173-4 -  
Ungeschirmte gerade Schnüre und  
Geräteanschlusskabel für Anwendungen  
der Klasse D -  
Bauartspezifikation

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

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## Foreword

This document (EN 50601:2014) has been prepared by CLC/TC 46X "Communication cables".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-09-23
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2016-09-23

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

## 1 Scope

This detail specification describes patch cords and application-specific cords enabling the construction of Class D channels as defined in the EN 50173 series of standards.

This detail specification describes cords of which the transmission characteristics are up to 100 MHz for digital communication. The test configuration is detailed in EN 61935-2.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50173-4, *Information technology — Generic cabling systems — Part 4: Homes*

EN 50288-1, *Multi-element metallic cables used in analogue and digital communication and control — Part 1: Generic specification*

EN 50288-3-2, *Multi-element metallic cables used in analogue and digital communication and control — Part 3-2: Sectional specification for unshielded cables characterised up to 100 MHz — Work area and patch cord cables*

EN 50289-1-13, *Communication cables — Specifications for test methods — Part 1-13: Electrical test methods — Coupling attenuation or screening attenuation of patch cords / coaxial cable assemblies / pre-connectorised cables*

EN 50289-4-17, *Communication cables — Specifications for test methods — Part 4-17: Test methods for UV resistance evaluation of the sheath of electrical and optical fibre cable*

EN 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 60603-7-2)*

EN 60794-1-2, *Optical fibre cables — Part 1-2: Generic specification — Basic optical cable test procedures (IEC 60794-1-2)*

EN 61935-2:2010, *Testing of balanced communication cabling in accordance with standards series EN 50173 — Part 2: Patch cords and work area cords (IEC 61935-2:2010)*

EN 61935-2-20, *Testing of balanced communication cabling in accordance with series EN 50173 — Part 2-20: Patch cords and work area cords — Blank detail specification for class D applications (IEC 61935-2-20)*

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

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **straight cord**

cord of which the respective pins of the connectors are mated together (1 to 1, 2 to 2,...)

### 3.2

#### **cross over cord**

cord that is not a straight cord and of which the respective pins of connectors are mated following a specific combination, (e.g. : 1 to 3, 2 to 6, 3 to 1, 4 to 4, 5 to 5, 6 to 2, 7 to 7, 8 to 8)