



SLOVENSKI STANDARD
SIST EN 50601:2014

01-maj-2014

Univerzalni sistemi polaganja kablov - Specifikacija za preskušanje simetričnega komunikacijskega okabljenja v skladu z EN 50173-4 - Zaslonjene ravne povezovalne vrvice in ravne vrvice za delovna območja za uporabo v razredu D - Podrobna specifikacija

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

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33.120.10 Koaksialni kabli. Valovodi Coaxial cables. Waveguides

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50601

February 2014

ICS 33.120.10

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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CENELEC

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

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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- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2016-09-23

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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 47-2: 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)

4 Detail specification for unscreened cords for Class D channels

[1] Issued by :		[2] Document: Edition : Date:		
[3] Available from:		[4] Sectional specification for the cords : Blank Detail specification :		EN 61935-2 EN 61935-2-20
[5] Additional references : EN 50288-1 ; EN 50288-3-2 ; EN 50173-4 ; EN 60603-7-2				
[6] Cord description: Straight cord. Twisted pair cable, 4 unscreened pair with stranded copper conductors, used for work area connection, with nominal impedance of 100 Ω or 120 Ω for use in Class D Channel .				
[7] Cable assembly construction:				
				
EN 61935-2:2010, 4.1	EN 50288-1 4.12	EN 50288-3-2 4.12	Conductor Material Sheath Material Nominal thickness Colour Overall length Diameter Marking	Stranded annealed copper PVC, ZH ns 10 m max 6 mm max Acc customer
	2.2.13	2.2.13	Packaging :	
Visual examination	EN 61935-2:2010, 5.1			
[8]				
Minimum bending radius for static bending:			24 mm	
Minimum bending radius for dynamic bending:			48 mm	
Temperature range for installation			0 – 50 °C	
Operating temperature range under static conditions: from -10 °C to +60 °C				