

SLOVENSKI STANDARD

SIST EN 50173-2:2018

01-oktober-2018

Nadomešča:

SIST EN 50173-2:2008

SIST EN 50173-2:2008/A1:2011

SIST EN 50173-2:2008/A1:2011/AC:2011

Informacijska tehnologija - Osnovni kabelski sistemi - 2. del: Pisarne

Information technology - Generic cabling systems - Part 2: Office spaces

Informationstechnik - Anwendungsneutrale Kommunikationskabelanlagen - Teil 2:
Bürobereiche

Technologies de l'information - Systèmes de câblage générique - Partie 2: Espaces de
bureau

<https://standards.iteh.ai/>
Ta slovenski standard je istoveten z: EN 50173-2:2018

ICS:

33.040.50	Vodi, zveze in tokokrogi	Lines, connections and circuits
35.110	Omreževanje	Networking

SIST EN 50173-2:2018

en,fr

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50173-2

June 2018

ICS 33.040.50

Supersedes EN 50173-2:2007

English Version

Information technology - Generic cabling systems - Part 2: Office spaces

Technologies de l'information - Systèmes de câblage
générique - Partie 2: Espaces de bureau

Informationstechnik - Anwendungsneutrale
Kommunikationskabelanlagen - Teil 2: Bürobereiche

This European Standard was approved by CENELEC on 2018-03-19. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

SIST EN 50173-2:2018

<https://standards.iteh.ai/catalog/standards/sist/910a7af9-2f08-4fb7-9f4c-bf8f1ca3c47d/sist-en-50173-2-2018>



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	5
Introduction.....	6
1 Scope and conformance	9
1.1 Scope	9
1.2 Conformance	9
2 Normative references	10
3 Terms, definitions and abbreviations	10
3.1 Terms and definitions	10
3.2 Abbreviations	11
4 Structure of the generic cabling system in office spaces	11
4.1 General.....	11
4.2 Functional elements.....	11
4.3 Structure and hierarchy	12
4.4 Cabling subsystems.....	14
4.4.1 Office space cabling subsystems.....	14
4.4.2 Associated cabling subsystems	14
4.5 Design objectives.....	14
4.5.1 General.....	14
4.5.2 Horizontal cabling	15
4.5.3 Backbone cabling	16
4.5.4 Tie cabling	16
4.6 Accommodation of functional elements.....	16
4.6.1 General.....	16
4.6.2 Telecommunications Outlet assemblies.....	16
4.6.3 Distributors	16
4.6.4 Cables	16
4.6.5 Consolidation Points	16
4.7 Interfaces.....	17
4.7.1 Equipment interfaces and test interfaces	17
4.7.2 Channels and links	17
4.8 Dimensioning and configuration.....	18
4.8.1 Distributors	18
4.8.2 Cables	19
4.8.3 Connecting hardware.....	19
4.8.4 Cords.....	19
4.8.5 Telecommunications Outlets and Consolidation Points.....	20
4.8.6 External network interface	21

5	Requirements for channels in office spaces	21
5.1	General.....	21
5.2	Environmental performance	22
5.3	Transmission performance	23
5.3.1	General.....	23
5.3.2	Balanced cabling	23
5.3.3	Optical fibre cabling	23
6	Reference implementations in office spaces	23
6.1	General.....	23
6.2	Balanced cabling	24
6.2.1	General.....	24
6.2.2	Horizontal cabling	24
6.2.3	Backbone cabling	27
6.3	Optical fibre cabling	27
6.3.1	Horizontal cabling	27
6.3.2	Backbone cabling	29
7	Requirements for cables in office spaces.....	30
7.1	General.....	30
7.2	Balanced cables of Category 6, 6A, 7, 7A, 8.1 and 8.2	30
7.3	Optical fibre cables of Category OM3, OM4, OM5, OS1a and OS2	30
8	Requirements for connecting hardware in office spaces	30
8.1	General requirements	30
8.2	Balanced connecting hardware	30
8.2.1	General requirements	30
8.2.2	Electrical, mechanical and environmental performance	31
8.3	Optical fibre connecting hardware.....	31
8.3.1	General requirements	31
8.3.2	Optical, mechanical and environmental performance.....	31
8.3.2.1	Connecting hardware at the Telecommunications Outlet.....	31
9	Requirements for cords and jumpers in office spaces	31
9.1	Jumpers.....	31
9.2	Balanced cords of Category 6, 6A, 7, 7A, 8.1 and 8.2.....	31
9.2.1	General.....	31
9.2.2	Additional requirements for certain cords.....	32
9.3	Optical fibre cords of Category OM3, OM4, OM5, OS1a and OS2.....	32