



# SLOVENSKI STANDARD

## SIST EN 50174-1:2018/A1:2020

01-september-2020

---

### Informacijska tehnologija - Polaganje kablov - 1. del: Specifikacija in zagotavljanje kakovosti - Dopnilo A1

Information technology - Cabling installation - Part 1: Installation specification and quality assurance

Informationstechnik - Installation von Kommunikationsverkabelung - Teil 1: Installationsspezifikation und Qualitätssicherung

Technologies de l'information - Installation de câblages - Partie 1 : Spécification de l'installation et assurance de la qualité

<https://standards.iteh.ai/catalog/standards/sist/860dea69-1575-4dbc-97d8-65abc7dc46eb/sist-en-50174-1:2018/a1:2020>

Ta slovenski standard je istoveten z: **EN 50174-1:2018/A1:2020**

---

#### ICS:

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

**SIST EN 50174-1:2018/A1:2020** en,fr

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 50174-1:2018/A1:2020

<https://standards.iteh.ai/catalog/standards/sist/860dea69-1575-4dbc-97d8-65abe7dc46ab/sist-en-50174-1-2018-a1-2020>

EUROPEAN STANDARD

EN 50174-1:2018/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2020

ICS 35.110

English Version

## Information technology - Cabling installation - Part 1: Installation specification and quality assurance

Technologies de l'information - Installation de câblages -  
Partie 1 : Spécification de l'installation et assurance de la  
qualité

Informationstechnik - Installation von  
Kommunikationsverkabelung - Teil 1:  
Installationspezifikation und Qualitätssicherung

This amendment A1 modifies the European Standard EN 50174-1:2018; it was approved by CENELEC on 2020-05-27. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

[SIST EN 50174-1:2018/A1:2020](https://standards.iteh.ai/catalog/standards/sist/860dea69-1575-4dbc-97d8-65abe7dc46ab/sist-en-50174-1-2018-a1-2020)

<https://standards.iteh.ai/catalog/standards/sist/860dea69-1575-4dbc-97d8-65abe7dc46ab/sist-en-50174-1-2018-a1-2020>



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

EN 50174-1:2018/A1:2020 (E)

## European foreword

This document (EN 50174-1:2018/A1:2020) has been prepared by CLC/TC 215, "Electrotechnical aspects of telecommunication equipment".

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) 2021-05-27
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-05-27

This document amends EN 50174-1:2018.

This amendment:

- a) corrects 4.1.3.3.1 regarding remote powering Category RP1;
- b) clarifies F.1.2 regarding minimum sample sizes for alien (exogenous) crosstalk testing.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

[SIST EN 50174-1:2018/A1:2020  
https://standards.iteh.ai/catalog/standards/sist/860dea69-1575-4dbc-97d8-65abe7dc46ab/sist-en-50174-1-2018-a1-2020](https://standards.iteh.ai/catalog/standards/sist/860dea69-1575-4dbc-97d8-65abe7dc46ab/sist-en-50174-1-2018-a1-2020)

## 1 Modification to subclause 4.1.3.3.1, “Requirements”

In subclause 4.1.3.3.1, replace the second indented paragraph of the fourth paragraph:

“Category RP1 installations avoid planning and installation practices but do require documentation and administrative controls during both the attachment of remote powering equipment and any subsequent extensions of the cabling (see 4.5.2.2). An additional complexity is that  $i_{C-average}$  is not just a simple average. Instead,  $i_{C-average}$  (A) is calculated as”

with

“Category RP1 installations avoid planning and installation practices but do require documentation and administrative controls during both the attachment of remote powering equipment and any subsequent extensions of the cabling (see 4.5.2.2).  $i_{C-average}$  (A) is calculated by equation (1)”

## 2 Modifications to subclause F.1.2 “Balanced cabling in accordance with the EN 50173 series of standards”

In subclause F.1.2, replace the penultimate paragraph:

“Where testing of alien (exogenous) crosstalk of installed permanent links or channels against the requirements of Classes E<sub>A</sub>, F, F<sub>A</sub>, I or II is required, the minimum sample of disturbed permanent links or channels to be tested shall be:

— 100 % for populations < 30;

— 30 % for populations ≥ 30.”

With:

“Where testing of alien (exogenous) crosstalk of installed permanent links or channels against the requirements of Classes E<sub>A</sub>, F, F<sub>A</sub>, I or II is required, the minimum sample of disturbed permanent links or channels to be tested shall be as indicated in Table F.2.

**Table F.2 — Minimum sample sizes for alien (exogenous) crosstalk testing**

Total no. of links/channels N	Sample size
1 to 30	3
31 to 150	ROUNDUP (0,1 x N)
151 to 3,200	33 <sup>a</sup>
3 201 to 35 000	126 <sup>a</sup>
35 001 to 150 000	201 <sup>a</sup>
150 001 to 500 000	315 <sup>a</sup>
<sup>a</sup> Equivalent to acceptance quality level (AQL) of 0,4 %, normal inspection, general inspection level I as defined in ISO 2859 series for populations of up to 500 000 links	

## 3 Modifications to subclause F.1.3, "Optical fibre cabling in accordance with the EN 50173 series of standards"

In F.1.3, renumber all instances of Table F.2 as "Table F.3".

**EN 50174-1:2018/A1:2020 (E)**

*In F.1.3, relabel Table F.2 as follows: "Table F.3 — Installed optical fibre cabling test parameters"*

**4 Addition to the Bibliography**

*Add the following reference to the Bibliography:*

*"ISO 2859 (all parts), Sampling procedures for inspection by attributes"*

**iTeh STANDARD PREVIEW  
(standards.iteh.ai)**

[SIST EN 50174-1:2018/A1:2020](https://standards.iteh.ai/catalog/standards/sist/860dea69-1575-4dbc-97d8-65abe7dc46ab/sist-en-50174-1-2018-a1-2020)

<https://standards.iteh.ai/catalog/standards/sist/860dea69-1575-4dbc-97d8-65abe7dc46ab/sist-en-50174-1-2018-a1-2020>