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Informacijska tehnologija - Generični kabelski sistemi - 10. del: Enoparično okablenje

Information technology - Generic cabling systems - Part 10: Single pair cabling

Informationstechnik - Anwendungsneutrale Kommunikationskabelanlagen - Teil 10: Einpaarige Verkabelung

Technologies de l'information - Systèmes de câblage générique - Partie 10: Câblage mono-paire

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ICS:

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

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prEN 50173-10

October 2026

ICS 35.110

Will supersede EN 50173-10:2025

English Version

Information technology - Generic cabling systems - Part 10: Single pair cabling

Technologies de l'information - Systèmes de câblage générique - Partie 10: Câblage mono-paire

Informationstechnik - Anwendungsneutrale Kommunikationskabelanlagen - Teil 10: Einpaarige Verkabelung

This draft European Standard is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2027-01-08.

It has been drawn up by CLC/TC 215.

If this draft becomes a European Standard, 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.

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European foreword

This document (prEN 50173-10:2026) has been prepared by CLC/TC 215 “Electrotechnical aspects of telecommunication equipment”.

This document is currently submitted to the Enquiry.

The following dates are proposed:

• latest date by which the existence of this document has to be announced at national level	(doa)	dav + 6 months
• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	dav + 12 months
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	dav + 36 months (to be confirmed or modified when voting)

This document will supersede EN 50173-10:2025 and all of its amendments and corrigenda (if any).

prEN 50173-10:2026 includes the following significant technical changes with respect to EN 50173-10:2025:

a) All T1-20 and P1-20 channels are replaced by T1-60 and P1-60 channels to support the new IEEE802.3 protocol 100BASE-T1L with 60 MHz bandwidth.

   1) T1-60: 1-pair cabling up to 60 MHz; designed for 100 Mbit/s transmission up to 100 m and current carrying capacity of minimum 0,75 A per conductor.

   2) T1-60A: 1-pair cabling up to 60 MHz; designed for 100 Mbit/s transmission up to 230 m and current carrying capacity of minimum 0,25 A per conductor.

   3) P1-60: 1-pair cabling up to 60 MHz; designed for 100 Mbit/s transmission up to 100 m and current carrying capacity of minimum 2,0 A per conductor.

   4) P1-60A: 1-pair cabling up to 60 MHz; designed for 100 Mbit/s transmission up to 300 m and current carrying capacity of minimum 0,75 A per conductor.

   5) P1-60B: 1-pair cabling up to 60 MHz; designed for 10 Mbit/s transmission up to 1 000 m and current carrying capacity of minimum 0,25 A per conductor.

b) tbd

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Introduction

This document contains general requirements for generic 1-pair balanced cabling and supports the generic cabling approach of EN 50173-1.

It contains a compilation of balanced single pair channel requirements for 100 m reach and beyond together with the supporting cable and connecting hardware requirements based on:

— IEC 61156 series (ffs);

— EN IEC 63171 series.

For the mentioned balanced single pair channels remote power supply services are specified.

Balanced single pair channels and links specified in this document are not a replacement for the generic 4-pair channels in EN 50173-1. They are an additional media type intended for use in industrial automation networks (e.g. for sensors, actuators and controllers) and “intelligent buildings”.

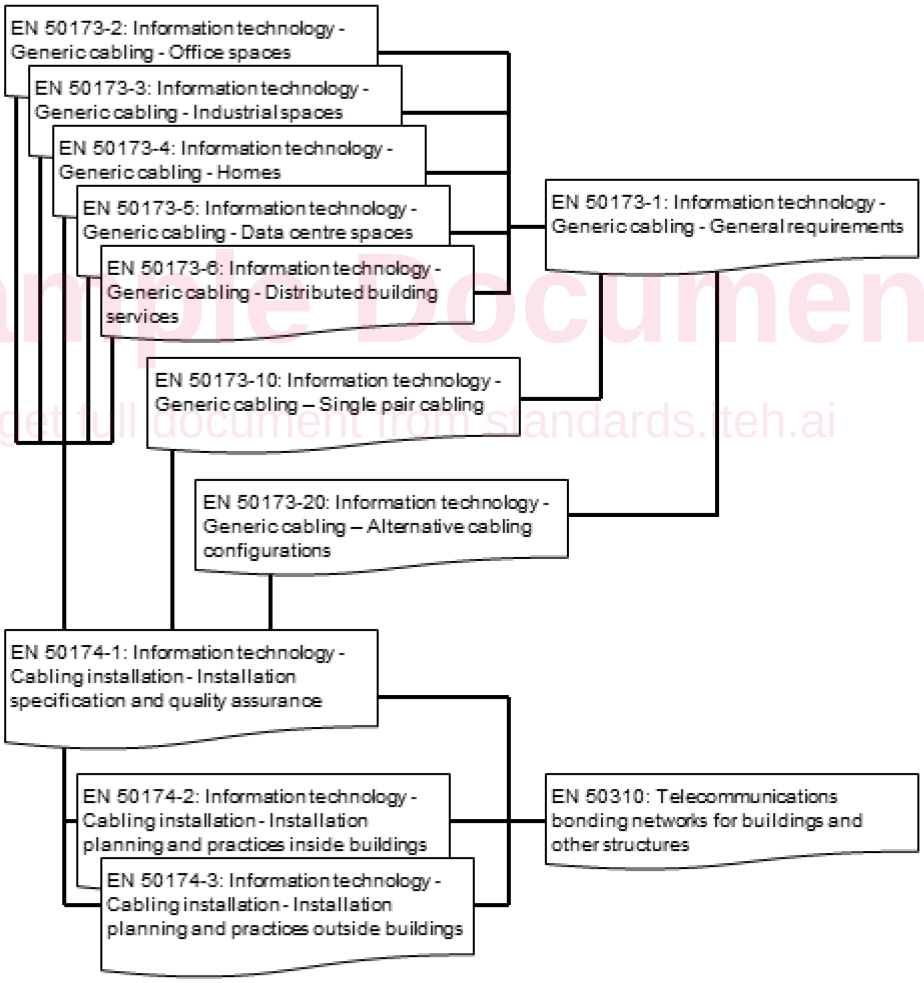


Figure 1 — Schematic relationship between the EN 50173 series and other relevant standards

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1 Scope

This document specifies 1-pair cabling and can be used in conjunction with all the space-specific standards of the EN 50173 series.

It delivers 1-pair cabling specifications to extend generic cabling systems according to the EN 50173 series.

This document specifies the:

— structure and minimum configuration for extension of generic cabling by 1-pair cabling;

— interfaces at the service outlet (TO/SO);

— performance requirements for cabling links and channels;

— implementation requirements and options;

— performance requirements for cabling components;

— conformance requirements and verification procedures.

This document takes into account the requirements specified in application standards listed in Annex C.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 50173-1:2018, *Information technology - Generic cabling systems - Part 1: General requirements*

EN 50173-3, *Information technology - Generic cabling systems - Part 3: Industrial spaces*

EN 50173-6, *Information technology - Generic cabling systems - Part 6: Distributed building services*

EN 50174-1, *Information technology - Cabling installation - Part 1: Installation specification and quality assurance*

EN 50174-2, *Information technology - Cabling installation - Part 2: Installation planning and practices inside buildings*

EN 50288 (all parts), *Multi-element metallic cables used in analogue and digital communication and control*

EN 60512-4-1, *Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof (IEC 60512-4-1)*

EN 60512-4-2, *Connectors for electronic equipment - Tests and measurements - Part 4-2: Voltage stress tests - Test 4b: Partial discharge (IEC 60512-4-2)*

EN 60512-6-2, *Connectors for electronic equipment - Tests and measurements - Part 6-2: Dynamic stress tests - Test 6b: Bump (IEC 60512-6-2)*

EN 60512-6-3, *Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests - Test 6c: Shock (IEC 60512-6-3)*

EN 60512-6-4, *Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests - Test 6d: Vibration (sinusoidal) (IEC 60512-6-4)*

EN 60512-11-4, *Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests - Test 11d: Rapid change of temperature (IEC 60512-11-4)*

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EN 60512-11-7, *Connectors for electronic equipment - Tests and measurements - Part 11- 7: Climatic tests - Test 11g: Flowing mixed gas corrosion test (IEC 60512-11-7)*

EN 60512-11-9, *Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests - Test 11i: Dry heat (IEC 60512-11-9)*

EN 60512-11-10, *Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests - Test 11j: Cold (IEC 60512-11-10)*

EN 60512-11-12, *Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests - Test 11m: Damp heat, cyclic (IEC 60512-11-12)*

EN 60512-16-4, *Connectors for electronic equipment - Tests and measurements - Part 16-4: Mechanical tests on contacts and terminations - Test 16d: Tensile strength (crimped connections) (IEC 60512-16-4)*

EN 60512-17-2, *Connectors for electronic equipment - Tests and measurements - Part 17-2: Cable clamping tests - Test 17b: Cable clamp resistance to cable rotation (IEC 60512-17-12)*

EN 60512-17-4, *Connectors for electronic equipment - Tests and measurements - Part 17-4: Cable clamping tests - Test 17d: Cable clamp resistance to cable torsion (IEC 60512-17-4)*

EN 60512-19-3, *Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 19: Chemical resistance tests - Section 3: Test 19c - Fluid resistance (IEC 60512-19-3)*

EN IEC 60512-23-3, *Connectors for electrical and electronic equipment - Tests and measurements - Part 23-3: Screening and filtering tests - Test 23c: Shielding effectiveness of connectors and accessories - Line injection method (IEC 60512-23-3)*

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EN 60529, *Degrees of protection provided by enclosures (IP Code) (IEC 60529)*

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EN 61935-2, *Specification for the testing of balanced and coaxial information technology cabling - Part 2: Cords as specified in ISO/IEC 11801 and related standards (IEC 61935-2)*

EN IEC 61935-4[1], *Specification for the testing of balanced and coaxial information technology cabling - Part 4: Installed balanced single-pair cabling as specified in ISO/IEC 11801-1 and related standards (IEC 61935-4)*

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

EN IEC 63171:2025, *Connectors for electrical and electronic equipment - Shielded or unshielded free and fixed connectors for balanced single-pair data transmission with current-carrying capacity - General requirements and tests (IEC 63171:2025)*

EN IEC 63171-1, *Connectors for electrical and electronic equipment - Part 1: Detail specification for two-way, shielded or unshielded, free and fixed connectors - Mechanical mating information, pin assignment and additional requirements for Type 1 copper LC style (IEC 63171-1)*

IEC 63171-6, *Connectors for electrical and electronic equipment - Part 6: Detail specification for 2-way and 4-way (data/power), shielded, free and fixed connectors for power and data transmission with frequencies up to 600 MHz*

IEC 61156-11, *Multicore and symmetrical pair/quad cables for digital communications – Part 11: Symmetrical single pair cables with transmission characteristics up to 1,25 GHz – Horizontal floor wiring – Sectional specification*

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IEC 61156-12, *Multicore and symmetrical pair/quad cables for digital communications - Part 12: Symmetrical single pair cables with transmission characteristics up to 600 MHz - Work area wiring - Sectional specification*

IEC 61156-13, *Multicore and symmetrical pair/quad cables for digital communications – Part 13: Symmetrical single pair cables with transmission characteristics up to 20 MHz - Horizontal floor wiring - Sectional specification*

IEC 61156-14, *Multicore and symmetrical pair/quad cables for digital communications – Part 14: Symmetrical single pair cables with transmission characteristics up to 20 MHz - Work area wiring - Sectional specification*

IEC 61935-2-X (all parts), *Testing of balanced communication cabling in accordance with ISO/IEC 11801*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50173-1 and EN 50174-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at https://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

3.2 Abbreviations

For the purposes of this document, the abbreviations given in EN 50173-1, EN 50173-6 and the following apply:

AO	Automation Outlet
ED	Edge Distributor
IoT	Internet of Things
IIoT	Industrial Internet of Things
M2M	Machine to machine
PoDL	Power over data line
SPE	Single Pair Ethernet

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3.3 Symbols

For the purposes of this document, the symbols given in EN 50173-1 apply.

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4 Structure of 1-pair cabling

4.1 General

This clause identifies the structure and hierarchy of 1-pair cabling, describes how they are connected to form horizontal cabling sub systems using 1-pair cabling at their ends and identifies the interfaces at which application-specific components are connected to the generic cabling.

1-pair transmission channels and links, created by connecting application-specific cabling components to the generic cabling, are used to support specific applications. Applications listed in Annex C are supported by connecting active equipment at the distributors.

4.2 Functional elements

The 1-pair cabling system described in this document is an extension of the generic cabling system according to EN 50173 series using the functional elements described in EN 50173-1 up to EN 50173-6. The following functional elements are relevant for 1-pair cabling systems:

a) Intermediate Distributor (ID), which can become an IID (see EN 50173-3);

b) Edge Distributor (ED), which offers a possible medium change from 4-pair or 2-pair cable to 1-pair cable;

c) Telecommunication Outlet (TO), which become an AO (see EN 50173-3);

d) Service Concentration Point (SCP);

e) Service Outlet (SO).

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4.3 Structure and hierarchy

1-pair cabling systems consist of 1-pair cables, 1-pair connectors, and 1-pair connection cords. The 1-pair cabling systems are connected to distributors or other functional elements to create together with the generic cabling system an end-to-end cabling solution according to the scope of EN 50173 series. The general structure is shown in Figure 2.

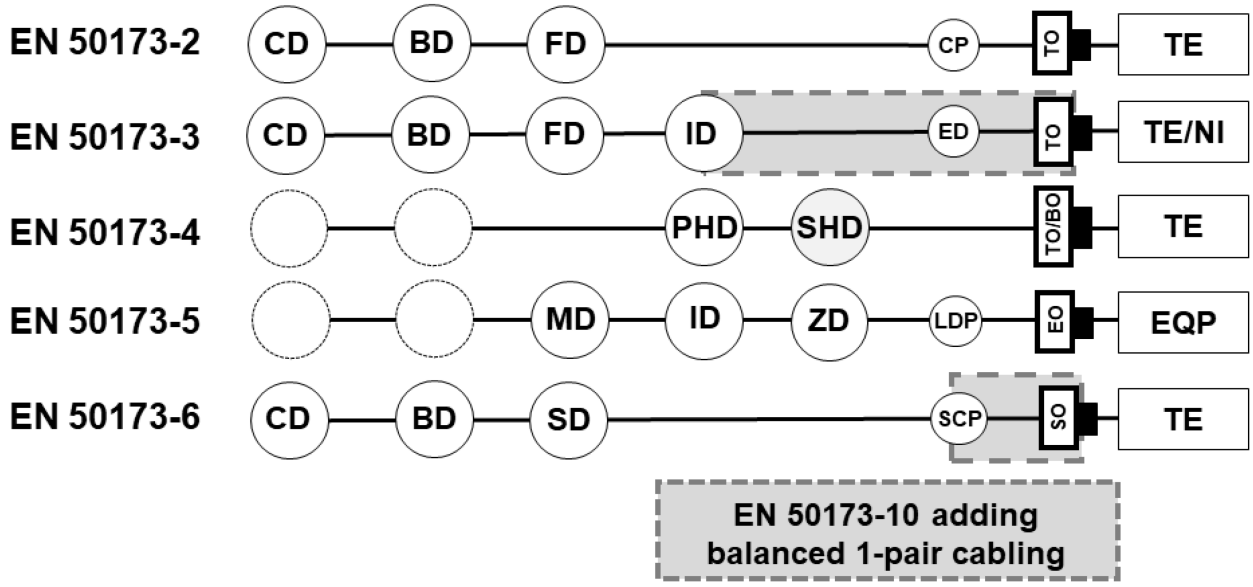


Figure 2 — General structure of 1-pair cabling in EN 50173-10

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4.4 Channels

This document specifies 1-pair cabling channels to support data and power transmission for Single Pair Ethernet and other services to extend generic cabling according EN 50173 series or other appropriate infrastructures and implementations.

a) T1-60: 1-pair cabling up to 60 MHz; designed for 100 Mbit/s transmission up to 100 m and current carrying capacity of minimum 0,75 A per conductor.

b) T1-60A: 1-pair cabling up to 60 MHz; designed for 100 Mbit/s transmission up to 230 m and current carrying capacity of minimum 0,25 A per conductor.

c) T1-600: 1-pair cabling up to 600 MHz; designed for 1 Gbit/s transmission up to 100 m and current carrying capacity of minimum 0,75 A per conductor.

d) P1-60: 1-pair cabling up to 60 MHz; designed for 100 Mbit/s transmission up to 100 m and current carrying capacity of minimum 2,0 A per conductor.

e) P1-60A: 1-pair cabling up to 60 MHz; designed for 100 Mbit/s transmission up to 300 m and current carrying capacity of minimum 0,75 A per conductor.

f) P1-60B: 1-pair cabling up to 60 MHz; designed for 10 Mbit/s transmission up to 1 000 m and current carrying capacity of minimum 0,25 A per conductor.

NOTE The P1-60B channel does not support the 100BASE-T1L.

4.5 Equipment interfaces and test interfaces

Equipment and test interfaces are specified in EN 50173-1:2018, 4.7.1.

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5 Channel performance

5.1 Environmental performance

The environmental performance shall comply with EN 50173-1:2018, Table 3.

5.2 Transmission performance

5.2.1 General

The required transmission performance Class of this clause shall be met for all environmental classifications specified for the channel. The transmission performance is specified at 20°C.

5.2.2 Balanced single-pair cabling channel performance

5.2.2.1 General

This document specifies the following Classes for single-pair balanced cabling:

a) Class T1-60: specified up to 60 MHz and 100 m; current carrying capacity of minimum 0,75 A, 4 connections;

b) Class T1-60A: specified up to 60 MHz and 230 m; current carrying capacity of minimum 0,25 A, 4 connections;

c) Class T1-600: specified up to 600 MHz and 100 m; current carrying capacity of minimum 0,75 A, 4 connections;

d) Class P1-60: specified up to 60 MHz and 100 m; current carrying capacity of minimum 2 A, 4 connections;

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e) Class P1-60A: specified up to 60 MHz and 300 m; current carrying capacity of minimum 0,75 A, 4 connections;

f) Class P1-60B: specified up to 60 MHz and 1000 m; current carrying capacity of minimum 0,25 A, 10 connections.

Annex C lists balanced cabling applications by Class.

NOTE For the length determination of application specific channels or links see Annex D.

The parameters specified in this subclause apply to channels with screened or unscreened cable elements, with or without an overall screen, unless explicitly stated otherwise.

The nominal impedance of channels is 100 Ω. This is achieved by suitable design, and appropriate choice of cabling components (irrespective of their nominal impedance).

The requirements in 5.2 are given by limits computed to one decimal place, using the equation for a defined frequency range. The limits for the propagation delay are computed to three decimal places. The informative tables show the calculated values derived from the relevant equation at key frequencies. Many specifications in 5.2 have a plateau in the specified requirement. These plateaus do not accurately depict the system performance. They have been added for measurement purposes.

5.2.2.2 Return loss

The variation of the input impedance of a channel is characterized by the return loss (RL).

The RL parameter is applicable to all Classes. The RL shall meet the limits computed, to one decimal place, using the formulae of Table 1. The limits shown in Table 2 are derived from the formulae at key frequencies only.

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Values of RL at frequencies for which the measured channel insertion loss is below 3,0 dB are for information only.

When required, the RL shall be measured according to EN IEC 61935-4. Terminations of 100 Ω shall be connected to the cabling elements under test at the remote end of the channel. The return loss requirements shall be met at both ends of the cabling.

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Table 1 — Formulae for RL limits for a channel

Class	Frequency MHz	Minimum RL dB
T1–60 T1–60A	$0{,}1 \le f \le 1$	$9 + 10 \times f$
	$1 < f \le 10$	19,0
	$10 < f \le 60$	$24 - 5 \times \lg(f)$
T1–600	$0{,}1 \le f \le 1$	$9 + 10 \times f$
	$1 < f \le 10$	19,0
	$10 < f \le 40$	$24 - 5 \times \lg(f)$
	$40 < f \le 130$	16,0
	$130 < f \le 400$	$37 - 10 \times \lg(f)$
	$400 < f \le 600$	11,0
P1–60	$0{,}1 \le f \le 1$	$9 + 10 \times f$

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P1–60A	$1 < f \leq 10$	$19,0$
P1–60B	$10 < f \leq 60$	$24 - 5 \times \lg\left(f\right)$

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