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**Konektorji za električno in elektronsko opremo - 6. del: Podrobna specifikacija za 2-polne in 4-polne (podatki/napajanje), zaslonjene, proste ali pritrjene konektorje za napajanje in prenos podatkov s frekvencami do 600 MHz (IEC 63171-6:2020)**

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 63171-6:2020)

Steckverbinder für elektrische und elektronische Einrichtungen - Produktanforderungen - Teil 6: Steckverbinder - Bauartspezifikation für geschirmte oder ungeschirmte freie und feste Steckverbinder, 2-polig und 4 polig (Daten/Energie) für Übertragungs- und Stromversorgungsfähigkeit und für Frequenzen bis zu 600 MHz (IEC 63171-6:2020)

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Connecteurs pour équipements électriques et électroniques - Partie 6: Spécification particulière pour les fiches et les embases écrantées à 2 voies et 4 voies (données/puissance) pour la transmission de données et de puissance à des fréquences jusqu'à 600 MHz (IEC 63171-6:2020)

**Ta slovenski standard je istoveten z: EN IEC 63171-6:2020**

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**ICS:**

31.220.10 Vtiči in vtičnice, konektorji Plug-and-socket devices.  
Connectors

**SIST EN IEC 63171-6:2020****en**

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EUROPEAN STANDARD

EN IEC 63171-6

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2020

ICS 31.220.10

English Version

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 63171-6:2020)

Connecteurs pour équipements électriques et électroniques  
- Partie 6: Spécification particulière pour les fiches et les  
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(données/puissance) pour la transmission de données et de  
puissance à des fréquences jusqu'à 600 MHz  
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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

**EN IEC 63171-6:2020 (E)****European foreword**

The text of document 48B/2764/FDIS, future edition 1 of IEC 63171-6, prepared by SC 48B "Electrical connectors" of IEC/TC 48 "Electrical connectors and mechanical structures for electrical and electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63171-6:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-11-24
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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-581	-	International Electrotechnical Vocabulary Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60068-2-38	-	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	EN 60068-2-38	-
IEC 60352	series	Solderless connections	-	-
IEC 60512-1	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 1: Generic specification	EN IEC 60512-1	-
IEC 60512-1-1	-	Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination - Test 1a: Visual examination	EN 60512-1-1	-
IEC 60512-1-2	-	Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass	EN 60512-1-2	-
IEC 60512-2-1	-	Connectors for electronic equipment - Tests and measurements - Part 2-1: Electrical continuity and contact resistance tests - Test 2a: Contact resistance - Millivolt level method	EN 60512-2-1	-

## EN IEC 63171-6:2020 (E)

IEC 60512-3-1	-	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests - Test 3a: Insulation resistance	EN 60512-3-1	-
IEC 60512-4-1	-	Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof	EN 60512-4-1	-
IEC 60512-5-2	-	Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests - Test 5b: Current-temperature derating	EN 60512-5-2	-
IEC 60512-6-3	-	Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests - Test 6c: Shock	EN 60512-6-3	-
IEC 60512-6-4	-	Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests - Test 6d: Vibration (sinusoidal)	EN 60512-6-4	-
IEC 60512-9-1	-	Connectors for electronic equipment - Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation	EN 60512-9-1	-
IEC 60512-9-2	-	Connectors for electronic equipment - Tests and measurements - Part 9-2: Endurance tests - Test 9b: Electrical load and temperature	EN 60512-9-2	-
IEC 60512-11-3	-	Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests - Test 11c: Damp heat, steady state	EN 60512-11-3	-
IEC 60512-11-4	-	Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests - Test 11d: Rapid change of temperature	EN 60512-11-4	-
IEC 60512-11-7	-	Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test	EN 60512-11-7	-
IEC 60512-11-9	-	Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests - Test 11i: Dry heat	EN 60512-11-9	-
IEC 60512-11-10	-	Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests - Test 11j: Cold	EN 60512-11-10	-

## EN IEC 63171-6:2020 (E)

IEC 60512-11-12	-	Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests - Test 11m: Damp heat, cyclic	EN 60512-11-12	-
IEC 60512-13-2	-	Connectors for electronic equipment - Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal forces	EN 60512-13-2	-
IEC 60512-13-5	-	Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method	EN 60512-13-5	-
IEC 60512-15-6	-	Connectors for electronic equipment - Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices	EN 60512-15-6	-
IEC 60512-25-7	-	Connectors for electronic equipment - Tests and measurements - Part 25-7: Test 25g - Impedance, reflection coefficient, and voltage standing wave ratio (VSWR)	EN 60512-25-7	-
IEC 60512-25-9	-	Connectors for electronic equipment - Tests and measurements - Part 25-9: Signal integrity tests - Test 25i: Alien crosstalk	EN 60512-25-9	-
IEC 60512-26-100	-	Connectors for electronic equipment - Tests and measurements - Part 26-100: Measurement setup, test and reference arrangements and measurements for connectors according to IEC 60603-7 - Tests 26a to 26g	EN 60512-26-100	-
IEC 60512-28-100	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 2 000 MHz - Tests 28a to 28g	EN IEC 60512-28-100	-
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	-	-
IEC 60603-7	2008	Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors	EN 60603-7	2009
IEC 60664-1	-	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	-
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006

**EN IEC 63171-6:2020 (E)**

IEC 61076-3	2008	Connectors for electronic equipment - Product requirements - Part 3: Rectangular connectors - Sectional specification	EN 61076-3	2008
IEC 61156	series	Generic specification for multicore and symmetrical pair/quad cables for digital communications	-	-
IEC 61984	-	Connectors - Safety requirements and tests	EN 61984	-
IEC 62153-4-15	-	Metallic communication cable test methods - Part 4-15: Electromagnetic compatibility (EMC) - Test method for measuring transfer impedance and screening attenuation - or coupling attenuation with triaxial cell	-	-

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IEC 63171-6

Edition 1.0 2020-01

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**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**

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**Connecteurs pour équipements électriques et électroniques –  
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à 2 voies et 4 voies (données/puissance) pour la transmission de données  
et de puissance à des fréquences jusqu'à 600 MHz**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**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**

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International Standard IEC 63171-6 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
48B/2764/FDIS	48B/2777/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 63171 series, published under the general title *Connectors for electrical and electronic equipment*, can be found on the IEC website.

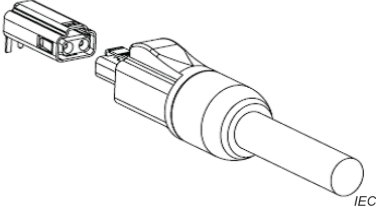
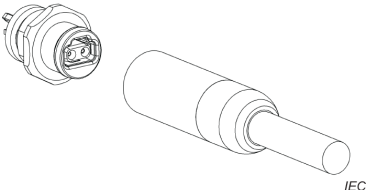
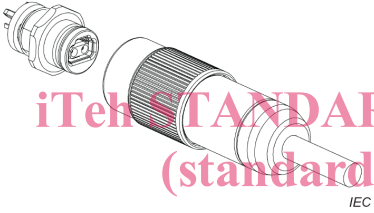
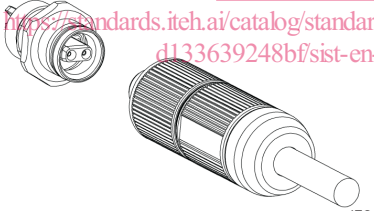
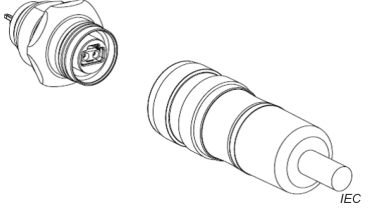
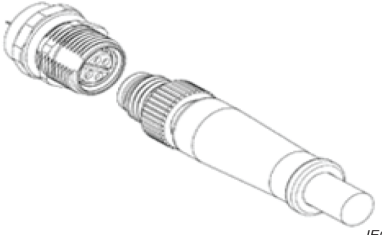
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<p align="center"><b>IEC SC 48B – Electrical connectors</b></p> <p align="center"><b>Specification available from:</b>  <b>IEC General secretariat or from the addresses shown on the inside cover.</b></p>	<p align="center"><b>IEC 63171-6 Ed. 1</b></p>
<p align="center">DETAIL SPECIFICATION in accordance with IEC 61076-1</p>	
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 <p align="center"><b>iTeh STANDARD PREVIEW</b> <b>(standards.iteh.ai)</b></p> <p align="right">IEC</p>	<p align="center">2-way data IP65/IP67, push-pull locking</p>
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