
Konektorji za električno in elektronsko opremo - 5. del: Podrobna specifikacija za 2-redne okrogle konektorje M8 in M12, zaslonjene ali nezaslonjene, proste ali pritrjene - Informacije o mehanskih prilagoditvah, funkcije polov in dodatne zahteve za tip 5 (IEC 63171-5:2022)

Connectors for electrical and electronic equipment - Part 5: Detail specification for 2-way M8 and M12 circular connectors, shielded or unshielded, free and fixed - Mechanical mating information, pin assignment and additional requirements for Type 5 (IEC 63171-5:2022)

Steckverbinder für elektrische und elektronische Einrichtungen - Produkthanforderungen - Teil 5: Bauartspezifikation für geschirmte oder ungeschirmte, freie und feste Rundsteckverbinder mit bis zu 8 Polen: Informationen zur mechanischen Passung, Kontaktstiftbelegung und zusätzliche Anforderungen für Typ 5 (IEC 63171-5:2022)

Connecteurs pour équipements électriques et électroniques – Partie 5: Spécification particulière pour les connecteurs circulaires M8 et M12 à 2 pôles, à fiches et embases écrantées ou non écrantées: informations d'accouplement mécanique, affectation des broches et exigences supplémentaires pour le type 5 (IEC 63171-5:2022)

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English Version

Connectors for electrical and electronic equipment - Part 5:
Detail specification for 2-way M8 and M12 circular connectors,
shielded or unshielded, free and fixed - Mechanical mating
information, pin assignment and additional requirements for
Type 5
(IEC 63171-5:2022)

Connecteurs pour équipements électriques et électroniques
- Partie 5: Spécification particulière pour les connecteurs
circulaires M8 et M12 à 2 pôles, à fiches et embases
écranées ou non écranées - Informations d'accouplement
mécanique, affectation des broches et exigences
supplémentaires pour le type 5
(IEC 63171-5:2022)

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Informationen zur mechanischen Passung,
Kontaktstiftbelegung und zusätzliche Anforderungen für
Typ 5
(IEC 63171-5:2022)

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Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 63171-5:2022 (E)**European foreword**

The text of document 48B/2973/FDIS, future edition 1 of IEC 63171-5, 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 63171-5:2022.

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) 2023-07-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-10-20

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The text of the International Standard IEC 63171-5:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60068 (series)	NOTE Harmonized as EN 60068 (series)
IEC 60512-5-2:2002	NOTE Harmonized as EN 60512-5-2:2002 (not modified)
IEC 60512-6-3:2002	NOTE Harmonized as EN 60512-6-3:2002 (not modified)
IEC 60512-6-4:2002	NOTE Harmonized as EN 60512-6-4:2002 (not modified)
IEC 60512-8-2:2011	NOTE Harmonized as EN 60512-8-2:2011 (not modified)
IEC 60512-13-2:2006	NOTE Harmonized as EN 60512-13-2:2006 (not modified)
IEC 60512-13-5:2006	NOTE Harmonized as EN 60512-13-5:2006 (not modified)
IEC 61076-2-010	NOTE Harmonized as EN IEC 61076-2-010
IEC 61984	NOTE Harmonized as EN 61984
IEC 62430	NOTE Harmonized as EN IEC 62430

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.

<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 60352	series	Solderless connections	EN IEC 60352	series
IEC 60512-1	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 1: Generic specification	EN IEC 60512-1	-
IEC 60512-28-100	2019	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	2019
IEC 60664-1	-	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	-
IEC 60999-1	-	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included)	EN 60999-1	-
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006
+ A1	2019		+ A1	2019
IEC 61076-2-101	-	Connectors for electronic equipment - Product requirements - Part 2-101: Circular connectors - Detail specification for M12 connectors with screw-locking	EN 61076-2-101	-

EN IEC 63171-5:2022 (E)

IEC 61076-2-104	-	Connectors for electronic equipment - Product requirements - Part 2-104: Circular connectors - Detail specification for circular connectors with M8 screw-locking or snap-locking	EN 61076-2-104	-
IEC 61760-3	-	Surface mounting technology - Part 3: Standard method for the specification of components for through hole reflow (THR) soldering	EN 61760-3	-
IEC/TR 63040	-	Guidance on clearances and creepage distances in particular for distances equal to or less than 2 mm - Test results of research on influencing parameters	-	-
IEC 63171	2021	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	EN IEC 63171	2021
IEC 63171-2	-	Connectors for electrical and electronic equipment - Part 2: Detail specification for two-way, shielded or unshielded, free and fixed connectors - Mechanical mating information, pin assignment and additional requirements for Type 2	EN IEC 63171-2	-
ISO/IEC 11801-1	-	Information technology - Generic cabling for customer premises - Part 1: General requirements	-	-
ISO 21920-1	2021	Geometrical product specifications (GPS) - Surface texture: Profile - Part 1: Indication of surface texture	EN ISO 21920-1	2022
IEEE 802.3	-	IEEE Standard for Ethernet	63171-5-2022	-



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NORME INTERNATIONALE

**Connectors for electrical and electronic equipment –
Part 5: Detail specification for 2-way M8 and M12 circular connectors, shielded
or unshielded, free and fixed – Mechanical mating information, pin assignment
and additional requirements for Type 5**

**Connecteurs pour équipements électriques et électroniques –
Partie 5: Spécification particulière pour les connecteurs circulaires M8 et M12 à
2 pôles, à fiches et embases écrantées ou non écrantées – Informations
d'accouplement mécanique, affectation des broches et exigences
supplémentaires pour le type 5**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –**Part 5: Detail specification for 2-way M8 and M12 circular connectors, shielded or unshielded, free and fixed – Mechanical mating information, pin assignment and additional requirements for Type 5**

FOREWORD

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IEC 63171-5 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment. It is an International Standard.

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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