

Irish Standard I.S. EN 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

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I.S. EN IEC 63171:2021

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I.S. EN IEC 63171:2021 is the adopted Irish version of the European Document EN 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

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EN IEC 63171

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2021

ICS 31.220.10

English Version

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 63171:2021)

Connecteurs pour équipements électriques et électroniques - Fiches et embases écrantées ou non écrantées pour transmission de données sur une seule paire symétrique avec courant admissible - Exigences générales et essais (IEC 63171:2021)

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European foreword

The text of document 48B/2863/FDIS, future edition 1 of IEC 63171, 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 63171:2021.

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IEC 60603-7 (series) NOTE Harmonized as EN 60603-7 (series)

IEC 61076-2-101 NOTE Harmonized as EN 61076-2-101

IEC 61076-2-104 NOTE Harmonized as EN 61076-2-104

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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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>	EN/HD	<u>Year</u>
IEC 60050-581	-	International Electrotechnical Vocabulary - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	2013	Environmental testing - Part 1: General and guidance	EN 60068-1	2014
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 60512-2-1	-	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	-
IEC 60512-2-5	-	Connectors for electronic equipment - Tests and measurements - Part 2-5: Electrical continuity and contact resistance tests - Test 2e: Contact disturbance	EN 60512-2-5	-
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	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
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 60512-6-4	-	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 60512-11-4	-	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 60512-11-12	-	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 60512-15-6	-	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 60512-25-9	-	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	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60664-1	-	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	-
IEC 62153-4-9:2018/ A1	2020	Metallic communication cable test methods - Part 4-9: Electromagnetic compatibility (EMC) - Coupling attenuation of screened balanced cables, triaxial method	-	-
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	-	-
IEC/TR 63040	2016	Guidance on clearances and creepage distances in particular for distances equal to or less than 2 mm - Test results of research on influencing parameters	-	-
ISO/IEC 11801-1	-	Information technology - Generic cabling for customer premises - Part 1: General requirements	-	-

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Edition 1.0 2021-03

INTERNATIONAL STANDARD

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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

Connecteurs pour équipements électriques et électroniques – Fiches et embases écrantées ou non écrantées pour transmission de données sur une seule paire symétrique avec courant admissible – Exigences générales et essais





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Edition 1.0 2021-03

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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

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CONTENTS

FC	DREWO	RD	4
IN	TRODU	CTION	6
1	Scop	e	7
2	Norm	native references	7
3		s and definitions	
4		mon features and typical connector pair	
5		acteristics	
J		General	
	5.1 5.2	Pin assignment	
	5.2	Classification into climatic category	
	5.4	Electrical characteristics	
	5.4.1	Creepage and clearance distances	
	5.4.2		
	5.4.3		
	5.4.4		
	5.4.5	•	
	5.4.6		
	5.4.7		
	5.5	Transmission characteristics	
	5.5.1		
	5.5.2	Insertion loss	13
	5.5.3	Return loss	14
	5.5.4	Propagation delay	14
	5.5.5	Transverse conversion loss	14
	5.5.6	Transverse conversion transfer loss	15
	5.5.7	Transfer impedance (shielded only)	15
	5.5.8	Coupling attenuation	15
	5.5.9	Power sum alien (exogenous) NEXT	16
	5.5.1	0 Power sum alien (exogenous) FEXT	16
	5.6	Mechanical characteristics	17
	5.6.1	Mechanical operation	
	5.6.2	1 0	
	5.6.3		
	5.6.4	9	
	5.6.5		
6	Tests	and test schedule	
	6.1	General	
	6.2	Example of input to output resistance measurement arrangement	
	6.3	Example of arrangement for contact resistance measurement	
	6.4	Arrangement for vibration test (test phase CP)	
	6.5	Test procedures and measuring methods	
	6.6	Preconditioning	
	6.7	Test schedules	
	6.7.1	General	
	6.7.2	,	
	6.7.3	Full test schedule	22

IEC 63171:2021 © IEC 2021 - 3 -

Bibliography	35
Figure 1 – Relationships between the IEC 63171 series and their related references	6
Figure 2 – Example of front view of fixed connector pin assignment	9
Figure 3 – Level I connector de-rating curve	
Figure 4 – Level II connector de-rating curve	
Figure 5 – Example of input to output resistance measurement arrangement	20
Figure 6 – Example of arrangement for contact resistance measurement	21
Table 1 – Maximum insertion loss	14
Table 2 – Minimum return loss	14
Table 3 – Minimum transverse conversion loss	15
Table 4 – Minimum transverse conversion transfer loss	15
Table 5 – Minimum coupling attenuation	16
Table 6 – Minimum power sum alien near end crosstalk (PS ANEXT)	16
Table 7 – Minimum power sum alien far end crosstalk (PS AFEXT)	17
Table 8 – Preferred values for the number of mating cycles	18
Table 9 – Minimum pull-out force	18
Table 10 – Test group P	23
Table 11 – Test group AP	24
Table 12 – Test group BP	27
Table 13 – Test group CP	28
Table 14 – Test group DP	30
Table 15 – Test group EP	32
Table 16 – Test group FP	34
Table 17 – Test group GP	34

– 4 –

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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

FOREWORD

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

FDIS	Report on voting
48B/2863/FDIS	48B/2866/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.

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- 5 -

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-6-

INTRODUCTION

The IEC 63171 series is a set of International Standards covering shielded or unshielded free and fixed connectors for balanced single-pair data transmission with current carrying capacity.

This document, identified as IEC 63171, is the general requirements and tests part (general specification) of the whole series. Subsequent parts, identified as IEC 63171 followed by a dash and a progressive number starting with 1, are the product detail specifications of this series and do not duplicate information given in this document, but list only additional requirements.

Each subsequent part is identified by a type of connector covered with the same number identifying the part. Some parts can describe more than connector geometries (rectangular, circular), sharing the core element and the relevant features.

For the complete specifications regarding a connector of this series, both this general specification and the relevant detail specification are therefore required.

For the qualification of a connector of this series, both this general specification and the relevant detail specification shall be met.

Figure 1 shows the interrelation of the standards:

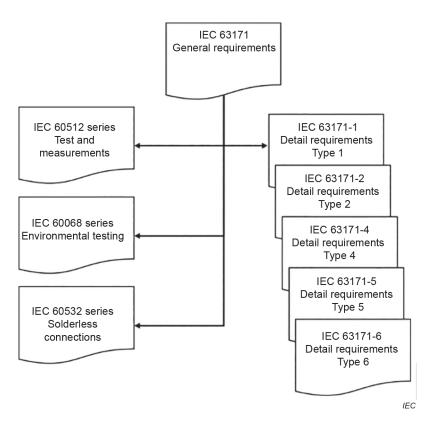


Figure 1 - Relationships between the IEC 63171 series and their related references

NOTE IEC 63171-1 and IEC 63171-6 contain duplicate information, which is either equal to or better than the minimum requirements of this document; such duplicate information is due to be removed in later editions.

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-7-

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

1 Scope

This document covers shielded and unshielded free and fixed connectors, circular or rectangular, for balanced single-pair data transmission, with current-carrying capacity.

It specifies the IEC 63171 series' common mechanical, electrical and transmission characteristics and environmental requirements, as well as required test specifications.

This document does not describe a specific mating interface. Detail specifications of mating interfaces complying with this document can be found in the family of detail specification standards IEC 63171-X (type X).

Within their own type, the shielded and unshielded connectors are interoperable for their transmission performance and can be exchanged; though the shielded version has improved alien crosstalk and coupling attenuation properties.

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.

IEC 60050-581, International Electrotechnical Vocabulary (IEV) – Part 581: Electromechanical components for electronic equipment

IEC 60068-1:2013, Environmental testing – Part 1: General and guidance

IEC 60512-1, Connectors for electrical and electronic equipment – Tests and measurements – Part 1: Generic specification

IEC 60512-1-1, Connectors for electronic equipment – Tests and measurements – Part 1-1: General examination – Test 1a: Visual examination

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

IEC 60512-2-5, Connectors for electronic equipment – Tests and measurements – Part 2-5: Electrical continuity and contact resistance tests – Test 2e: Contact disturbance

IEC 60512-3-1, Connectors for electronic equipment – Tests and measurements – Part 3-1: Insulation tests – Test 3a: Insulation resistance

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