



BSI Standards Publication

Low-voltage switchgear and controlgear

Part 7-4: Ancillary equipment – PCB terminal blocks for copper conductors (IEC 60947-7-4:2019)

bsi.

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National foreword

This British Standard is the UK implementation of EN IEC 60947-7-4:2019. It is identical to IEC 60947-7-4:2019. It supersedes BS EN 60947-7-4:2013, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PEL/121/1, Low voltage switchgear and controlgear.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Amendments/corrigenda issued since publication

Date	Text affected
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60947-7-4

March 2019

ICS 29.130.20

Supersedes EN 60947-7-4:2013

English Version

**Low-voltage switchgear and controlgear - Part 7-4: Ancillary
equipment - PCB terminal blocks for copper conductors
(IEC 60947-7-4:2019)**

Appareillage à basse tension - Partie 7-4: Matériels
accessoires - Blocs de jonction pour cartes de circuits
imprimés pour conducteurs en cuivre
(IEC 60947-7-4:2019)

Niederspannungsschaltgeräte - Teil 7-4: Hilfseinrichtungen
- Leiterplatten-Anschlussklemmen für Kupferleiter
(IEC 60947-7-4:2019)

This European Standard was approved by CENELEC on 2019-02-22. 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.

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 European Standard 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

European foreword

The text of document 121A/255/FDIS, future edition 2 of IEC 60947-7-4, prepared by SC 121A "Low-voltage switchgear and controlgear" of IEC/TC 121 "Switchgear and controlgear and their assemblies for low voltage" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60947-7-4:2019.

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) 2019-11-22
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-02-22

This document supersedes EN 60947-7-4:2013.

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.

Endorsement notice

The text of the International Standard IEC 60947-7-4:2019 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 standards indicated:

IEC 60512-2-1	NOTE Harmonized as EN 60512-2-1
IEC 60512-5-1	NOTE Harmonized as EN 60512-5-1
IEC 60512-9-5:2010	NOTE Harmonized as EN 60512-9-5:2010 (not modified)
IEC 60664-1:2007	NOTE Harmonized as EN 60664-1:2007 (not modified)
IEC 60695-10-2	NOTE Harmonized as EN 60695-10-2
IEC 60695-11-5	NOTE Harmonized as EN 60695-11-5
IEC 60947-7-1:2009	NOTE Harmonized as EN 60947-7-1:2009 (not modified)
IEC 60998-1:2002	NOTE Harmonized as EN 60998-1:2004
IEC 61984	NOTE Harmonized as EN 61984

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 60068-2-20	-	Environmental testing - Part 2-20: Tests Test T: Test methods for solderability and resistance to soldering heat of devices with leads	-EN 60068-2-20	-
IEC 60352-1	-	Solderless connections - Part 1: Wrapped connections - General requirements, test methods and practical guidance	EN 60352-1	-
IEC 60352-2	-	Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance	EN 60352-2	-
IEC 60352-3	-	Solderless connections - Part 3: Solderless accessible insulation displacement connections - General requirements, test methods and practical guidance	EN 60352-3	-
IEC 60352-4	-	Solderless connections - Part 4: Solderless non-accessible insulation displacement connections - General requirements, test methods and practical guidance	EN 60352-4	-
IEC 60352-5	-	Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance	EN 60352-5	-
IEC 60352-6	-	Solderless connections - Part 6: Insulation piercing connections - General requirements, test methods and practical guidance	EN 60352-6	-
IEC 60352-7	-	Solderless connections - Part 7: Spring clamp connections - General requirements, test methods and practical guidance	EN 60352-7	-
IEC 60512-2-2	2003	Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests - Test 2b: Contact resistance - Specified test current method	-EN 60512-2-2	2003

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IEC 60512-4-1	-	Connectors for electronic equipment -EN 60512-4-1 Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof	-
IEC 60512-5-2	2002	Connectors for electronic equipment -EN 60512-5-2 Tests and measurements - Part 5-2: Current-carrying capacity tests - Test 5b: Current-temperature derating	2002
IEC 60512-11-7	-	Connectors for electronic equipment -EN 60512-11-7 Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test	-
IEC 60512-11-9	-	Connectors for electronic equipment -EN 60512-11-9 Tests and measurements - Part 11-9: Climatic tests - Test 11i: Dry heat	-
IEC 60512-11-10	-	Connectors for electronic equipment -EN 60512-11-10 Tests and measurements - Part 11-10: Climatic tests - Test 11j: Cold	-
IEC 60695-2-10	-	Fire hazard testing - Part 2-10:EN 60695-2-10 Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	-
IEC 60695-2-11	-	Fire hazard testing - Part 2-11:EN 60695-2-11 Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)	-
IEC 60695-2-12	-	Fire hazard testing - Part 2-12:EN 60695-2-12 Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	-
IEC 60695-2-13	-	Fire hazard testing - Part 2-13:EN 60695-2-13 Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	-
IEC 60947-1	2007	Low-voltage switchgear and controlgear -EN 60947-1 Part 1: General rules	2007
+ A1	2010		+ A1 2011
+ A2	2014		+ A2 2014
IEC 60998-2-3	-	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units	-
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)	-
IEC 60999-2	-	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 2: Particular requirements for clamping units for conductors above 35 mm ² up to 300 mm ² (included)	-
IEC 61210	-	Connecting devices - Flat quick-connect terminations for electrical copper conductors - Safety requirements	-