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Responsible committee: PEL/78 Tools for live working

Interested committees:

Title: Draft BS EN 63247-1 Live working. Part 1: Footwear for electrical protection - Insulating footwear and overboots.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



78/1263/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 63247-1 ED1

DATE OF CIRCULATION:

2019-06-28

CLOSING DATE FOR VOTING:

2019-09-20

SUPERSEDES DOCUMENTS:

IEC TC 78 : LIVE WORKING

SECRETARIAT:

France

SECRETARY:

Mrs Sophie Chabin

OF INTEREST TO THE FOLLOWING COMMITTEES:

PROPOSED HORIZONTAL STANDARD:

☐

Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☐ SAFETY

☒ SUBMITTED FOR CENELEC PARALLEL VOTING

☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

Attention IEC-CENELEC parallel voting

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

Live working - Part 1: Footwear for electrical protection - Insulating footwear and overboots

PROPOSED STABILITY DATE: 2023

NOTE FROM TC/SC OFFICERS:

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIVE WORKING – Part 1: Footwear for electrical protection – Insulating footwear and overboots**FOREWORD**

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International Standard IEC 63247 has been prepared by IEC technical committee 78: Live working.

This text is based on EN 50321-1:2018.

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.

Terms defined in Clause 3 are given in *italic* print throughout this document.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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LIVE WORKING – Part 1: Footwear for electrical protection – Insulating footwear and overboots

1 Scope

This International Standard specifies the requirements and testing for PPE footwear used as *electrical insulating footwear and overboots* that provide protection of the worker against electric shock and used for working live or close to live parts on installations up to 36 000 V AC or 25 000 V DC.

The products designed and manufactured according to this standard contribute to the safety of the users provided they are used by skilled persons, in accordance with safe methods of work and the instructions for use.

Antistatic, electrical shock resistant and conductive footwear are not covered by this standard.

NOTE Part 2 Electrical Shock Resistant Footwear and Part 3 Conductive Footwear for Live Working are in development.

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 12568:2010, *Foot and leg protectors - Requirements and test methods for toecaps and penetration resistant inserts*

IEC 60060-1, *High-voltage test techniques - Part 1: General definitions and test requirements*

IEC 60212, *Standard conditions for use prior to and during the testing of solid electrical insulating materials*

IEC 61318:2007, *Live working - Conformity assessment applicable to tools, devices and equipment*

ISO 20345:2011, *Personal protective equipment - Safety footwear*

ISO 20346:2014, *Personal protective equipment - Protective footwear*

ISO 20347:2012, *Personal protective equipment - Occupational footwear*

IEC 60417 DB, *Graphical symbols for use on equipment*

3 Terms and definitions

For the purpose of this document, the terms and definitions given in EN 61318:2008 and the following apply.

3.1

antistatic footwear

footwear, the resistance of which is above 100 k Ω and less than or equal to 1 000 M Ω

Note 1 to entry: Resistance is measured in accordance with ISO 20344:2011, 5.10.

[SOURCE: ISO 20345:2011, 3.15, modified]

3.2

conductive footwear for live working

footwear, the resistance of which is in the range of 0 kΩ to 10 kΩ

Note 1 to entry: Resistance is measured in accordance with EN 60895:2003, 8.3 (*this was added in order to be comparable to conductive footwear*).

[SOURCE: IEC 60895:2003, 8.3, modified]

3.3

electrical insulating footwear

footwear which protects the wearer against electrical shocks by preventing the passage of dangerous current through the body via the feet

[SOURCE: IEC ISO 20345:2011, 3.16, modified]

3.4

electrical insulating overboot

device designed to be worn over existing footwear, made of flexible insulating material with slip resistant sole, which protects the wearer against electric shock by preventing the passage of dangerous current through the body via the feet

[SOURCE: IEC 60050-651:2014, 651-23-05, modified]

3.5

electrical shock resistant footwear

footwear of which only the outsole protects the wearer against electrical shocks by preventing the passage of dangerous current through the body via the feet

Note 1 to entry: Outsole is defined in Figure 3 as a single unit that incorporates the sole and heel.

3.6

height of the upper

vertical distance between the lowest point of the insole i.e. between the heel breast and the back of the heel (see Figure 3) and the lowest point of the upper

Note 1 to entry: the *height of the upper* is referred as (X) in the standard.

3.7

occupational footwear

footwear incorporating protective features to protect the wearer from injuries which could arise through accidents

Note 1 to entry: Items of *occupational footwear* are fitted without toecaps designed to give protection against impact or against compression

[SOURCE: ISO 20347:2012, 3.1 modified]

3.8

proof test voltage

specified voltage that is applied to an *electrical insulating footwear or overboots* for the time defined under specified conditions to assure that the electrical strength of the insulation is above a specified value

3.9

routine test

test to which each unit is subjected during or after manufacture to ascertain whether it complies with certain criteria

[SOURCE: IEC 60050-151: 2001, 151-16-17, and IEC 61318:2008, 3.11, modified]

3.10

safety footwear

footwear incorporating features to protect the wearer from injuries that could arise through accidents