

INTERNATIONAL STANDARD

IEC 61386-1

1996

AMENDMENT 1
2000-11

Amendment 1

Conduit systems for electrical installations –

**Part 1:
General requirements**

IEC Standards
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*This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.*

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PRICE CODE

M

For price, see current catalogue

FOREWORD

This amendment has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories.

The text of this amendment is based on the following documents:

FDIS	Report on voting
23A/342/FDIS	23A/354/RVD

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

The committee has decided that the contents of the base publication and its amendments will remain unchanged until 2002-01. At this date, the publication will be

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- withdrawn;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

Page 3

CONTENTS

Add, at the end of the contents, after Annex A, the term "(normative)"

Add, at the end of the contents, the title of the new annex B as follows:

Annex B (normative) Determination of material thickness

Page 7

2 Normative references

Replace the date of the reference IEC 695-2-1/1 by "1994".

3 Definitions

Page 9

3.3

Delete the words "or terminate"

Delete definitions 3.14, 3.15 and 3.16.

Page 11

Renumber definitions 3.17 and 3.18 to read 3.14 and 3.15 respectively.

3.19 conduit joint

Renumber this definition to read 3.16 and replace the existing title and text by the following:

terminating conduit fitting
conduit fitting that terminates a conduit system

Renumber definitions 3.20, 3.21 and 3.22 to read 3.17, 3.18 and 3.19 respectively.

4 General requirements

4.1

Replace, in the first paragraph, the words "without danger" by "they provide protection".

4.4

Replace the existing text by the following new text:

Compliance is checked by carrying out all specified relevant tests.

5 General conditions for tests

5.2

Replace "(23 ± 2) °C" by "(20 ± 5) °C".

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5.7

Replace in the first paragraph, first line, the word "submitted" by "subjected".

Replace in the second paragraph, third line, the word "made" by "carried out".

6 Classification

Page 15

6.2 According to temperature

*Insert, before table 1, "**6.2.1 Lower temperature range**"*

Delete, in table 1, second column heading, the word "permanent".

Page 17

Insert before table 2: "6.2.2 Upper temperature range"

Delete, in table 2, second column heading, the word "permanent".

6.3 According to electrical characteristics

6.3.2

This correction applies to the French text only.

Add, after 6.3.2, the following new subclause:

6.3.3 With electrical continuity and insulating characteristics

6.5.3

Delete this subclause.

7 Marking and documentation

7.1

Replace in the first paragraph, first line, the words "by a" by "on the product with a".

Replace in the second paragraph, first line, the word "also" by "in addition".

Page 19

Add the following new subclause 7.5:

7.5 *Compliance with 7.1 to 7.4 is checked by inspection*

Replace the first line of the existing 7.5 by the following new text:

7.6 The marking shall be durable and clearly legible

Replace, in note 1 "and specific density approximately 0,68 kg/l" by "and density of approximately 0,68 g/cm³".

9 Construction

Page 21

9.3

Replace, in the second paragraph, "a torque in accordance with" by "the relevant torque given in".

9.4

Replace, in the second paragraph, "a torque in accordance with" by "the relevant torque given in".

10 Mechanical properties

Page 25

10.1.4

Insert, after "Compliance": "of 10.1.1 to 10.1.3".

10.2.1

Insert, at the end of first line following "compression test": "at (23 ± 2) °C".

10.2.4

Replace, in the first line, "continuously" by "uniformly".

Replace, in the second line, "30 s" by "(30 ± 3) s".

10.2.7

Replace, in the first line, "60 s" by "(60 ± 2) s".

10.3.1

Replace, in the first line, "conduits" by "conduit".

Replace, in the note, "Fittings" by "Conduit fittings".

Page 27

10.3.2

Replace, in the second paragraph, second line, "specified" by "as given".

10.3.3

Replace the existing text by the following new text:

After the test, when samples have attained (20 ± 5) °C, it shall be possible to pass the appropriate gauge specified in the relevant particular requirements (parts 21, 22, 23, etc.) through the conduit, under its own weight and without any initial speed, with the sample in the vertical position. There shall be no sign of disintegration nor shall there be any crack visible to normal or corrected vision without magnification.

At least nine of the twelve samples shall pass the test.

10.4 Bending test

Replace the existing text by the following new text:

The test is specified in the relevant particular requirements (parts 21, 22, 23, etc.) of this standard.

10.5 Flexing test

Replace the existing text by the following new text:

The test is specified in the relevant particular requirements (parts 21, 22, 23, etc.) of this standard.

10.6 Collapse test

Replace the existing text by the following new text:

The test is specified by the relevant particular requirements (parts 21, 22, 23, etc.) of this standard.

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10.7.1

Replace the second paragraph by the following new text:

A sample of conduit and two conduit fittings or terminating conduit fittings are assembled in accordance with the manufacturer's instructions so that the overall length is approximately 300 mm. The assembly is subjected to a uniformly increasing tensile force reaching the value given in table 6, at $(23 \pm 2) ^\circ\text{C}$, in (30 ± 3) s. This tensile force is then applied for $2 \text{ min} \pm 10 \text{ s}$.

10.7.4

Replace, in the first line, "terminating fittings" by "conduit fittings or terminating conduit fittings".

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11 Electrical properties

11.1 Electrical requirements

11.1.1

Replace, in the second line, "tests specified" by "test" in both cases.

11.2 Bonding test

Delete, in the first paragraph, at the end of the third sentence, "in the batch".

Replace, in the first paragraph, second sentence, "25 mm and 28 mm" by "100 mm and 150 mm".

Replace in the first paragraph, sixth line, " $1 \text{ min} \begin{smallmatrix} +5 \\ 0 \end{smallmatrix} \text{ s}$, after which the voltage drop is measured" by " $(60 \pm 2) \text{ s}$. The voltage drop is then measured".