

# Specifications for particular types of winding wires —

## Part 0: General requirements —

### Section 4: Glass-fibre wound bare or enamelled rectangular copper wire

The European Standard EN 60317-0-4:1994 has the status of a British Standard

ICS 29.060.10

# Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Cables and Insulation Standards Policy Committee (CIL/-) to Technical Committee CIL/55, upon which the following bodies were represented:

- Covered Conductors Association
- Electrical and Electronic Insulation Association (BEAMA Ltd.)
- Electronic Components Industry Federation
- Transmission and Distribution Association (BEAMA Ltd.)

This British Standard, having been prepared under the direction of the Cables and Insulation Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 April 1993

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The following BSI references relate to the work on this standard:  
Committee reference CIL/55  
Special announcement in *BSI News* March 1993

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## Amendments issued since publication

| Amd. No. | Date           | Comments                              |
|----------|----------------|---------------------------------------|
| 7906     | September 1993 |                                       |
| 8988     | July 1996      | Indicated by a sideline in the margin |
|          |                |                                       |
|          |                |                                       |

# Contents

|                          | Page               |
|--------------------------|--------------------|
| Committees responsible   | Inside front cover |
| National foreword        | ii                 |
| Foreword to EN 60317-0-4 | 2                  |
| Foreword to amendment A2 | 2                  |
| Text of EN 60317-0-4     | 3                  |
| List of references       | Inside back cover  |

# National foreword

This British Standard was prepared by Technical Committee GEL/55 (formerly CIL/55). It is identical with IEC 317-0-4:1990 *Specifications for particular types of winding wires — Part 0: General requirements — Section 4 Glass-fibre wound bare or enamelled rectangular copper wire* including Amendment No. 1:1992 and Amendment No. 2:1993, published by the International Electrotechnical Commission (IEC).

In 1994 the European Committee for Electrotechnical Standardization (CENELEC) accepted IEC 317-0-2:1990 as European Standard EN 60317-0-4:1994. As a consequence of implementing the European Standard, this British Standard is renumbered as BS EN 60317-0-4 and any reference to BS 6811-6.0 should be read as a reference to BS EN 60317-0-4.

**WARNING.** In referring to the methods of test in BS 6811-2 this Section calls for the use of substances and/or procedures that may be injurious to health if adequate precautions are not taken. It refers to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage. Reference is made in the IEC foreword to IEC 317-0-4 replacing IEC 182-1 and IEC 182-2; attention is drawn to the following British Standards which are related to IEC 182-1: BS 5550-6.4 and BS 6811-1.1 and to BS EN 60182-2 respectively.

The introduction to IEC 317-0-4 reads as follows.

“This International Standard is one of a series which deals with insulated wires used for windings in electrical equipment. The series has three groups describing:

- 1) methods of test (IEC 851);
- 2) specifications (IEC 317);
- 3) packaging (IEC 264).”

**NOTE** Reference should be made to BS 6811-0 *General introduction and list of Parts* which lists all standards in the BS 6811 series and gives their relationship with IEC publications.

## Cross-references

| International Standard | Corresponding British Standard                                                                                                                                          |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | BS 6811 <i>Winding wires</i>                                                                                                                                            |
| IEC 317-31:1990        | Section 6.1:1993 <i>Glass-fibre wound, polyester or polyesterimide varnish-treated, bare or enamelled rectangular copper wire, temperature index 180</i><br>(Identical) |
| IEC 317-32:1990        | Section 6.2:1993 <i>Glass-fibre wound, polyester or polyesterimide varnish-treated, bare or enamelled rectangular copper wire, temperature index 155</i><br>(Identical) |
| IEC 317-33:1990        | Section 6.3:1993 <i>Glass-fibre wound, silicone varnish-treated, bare or enamelled rectangular copper wire, temperature index 200</i><br>(Identical)                    |
| IEC 851                | Part 2 <i>Methods of test</i><br>(All sections are identical)                                                                                                           |
| ISO 3:1973             | BS 2045:1965 <i>Preferred numbers</i><br>(Technically equivalent)                                                                                                       |

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

#### Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN title page, pages 2 to 18, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.



English version

Specifications for particular types of winding wires  
Part 0: General requirements  
Section 4: Glass-fibre wound bare or enamelled  
rectangular copper wire

(includes amendment A2:1994)  
(IEC 317-0-4:1990 + A1:1992 + A2:1993)

Spécifications pour types particuliers de fils de  
bobinage

Partie 0: Prescriptions générales

Section 4: Fil de section rectangulaire en cuivre  
ou en cuivre émaillé, guipé de fibres de verre  
(inclut l'amendement A2:1994)

(CEI 317-0-4:1990 + A1:1992 + A2:1993)

Technische Lieferbedingungen für bestimmte  
Typen von Wickeldrähten

Teil 0: Allgemeine Anforderungen

Hauptabschnitt 4: Flachdrähte aus Kupfer,  
blank oder lackisoliert und umhüllt mit  
Glasgewebe

(enthält Änderung A2:1994)

(IEC 317-0-4:1990 + A1:1992 + A2:1993)

This European Standard was approved by CENELEC on 1994-07-05. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B-1050 Brussels**

**Foreword to EN 60317-0-4**

At the request of the 78th Technical Board of CENELEC, HD 555.0.4 S2:1993 (IEC 317-0-04:1990 + A1:1992) was submitted to the CENELEC voting procedure for conversion into a European Standard.

The text of the International Standard was approved by CENELEC as EN 60317-0-4 on 5 July 1994.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1995-07-15
- latest date of withdrawal of conflicting national standards (dow) —

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given only for information. In this standard, Annex A and Annex B are informative and Annex ZA is normative.

**Foreword to amendment A2**

The CENELEC questionnaire procedure, performed for finding out whether or not amendment 2:1993 to the International Standard IEC 317-04:1990 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as a European Standard.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as amendment A2 to EN 60317-0-4 on 5 July 1994.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1995-07-15
- latest date of withdrawal of conflicting national standards (dow) 1995-07-15

**Contents**

|                                                                                                                                         | Page |
|-----------------------------------------------------------------------------------------------------------------------------------------|------|
| Foreword to EN 60317-0-4                                                                                                                | 2    |
| Foreword to amendment A2                                                                                                                | 2    |
| 1 Scope                                                                                                                                 | 3    |
| 2 Normative references                                                                                                                  | 3    |
| 3 Definitions and general notes on methods of test                                                                                      | 3    |
| 4 Dimensions                                                                                                                            | 3    |
| 5 Electrical resistance                                                                                                                 | 6    |
| 6 Elongation                                                                                                                            | 6    |
| 7 Springiness                                                                                                                           | 6    |
| 8 Flexibility and adherence                                                                                                             | 6    |
| 9 Heat shock                                                                                                                            | 6    |
| 10 Cut-through                                                                                                                          | 6    |
| 11 Resistance to abrasion                                                                                                               | 6    |
| 12 Resistance to solvents                                                                                                               | 6    |
| 13 Breakdown voltage                                                                                                                    | 6    |
| 14 Continuity of insulation                                                                                                             | 7    |
| 15 Temperature index                                                                                                                    | 7    |
| 16 Resistance to solvents                                                                                                               | 7    |
| 17 Solderability                                                                                                                        | 7    |
| 18 Heat or solvent bonding                                                                                                              | 7    |
| 19 Dielectric dissipation factor                                                                                                        | 7    |
| 20 Resistance to transformer oil                                                                                                        | 7    |
| 21 Loss of mass                                                                                                                         | 7    |
| 22 High temperature failure                                                                                                             | 7    |
| 30 Packaging                                                                                                                            | 7    |
| Annex A (informative) Nominal cross-sectional areas for preferred and intermediate sizes                                                | 8    |
| Annex B (informative) Special tolerances                                                                                                | 17   |
| Annex ZA (normative) Other international publications quoted in this standard with the references of the relevant European publications | 17   |
| Table 1 — Nominal cross-sectional areas of preferred sizes                                                                              | 4    |
| Table 2 — Conductor tolerances                                                                                                          | 5    |
| Table 3 — Corner radii                                                                                                                  | 5    |
| Table 4 — Increase in dimensions                                                                                                        | 5    |
| Table 5 — Elongation                                                                                                                    | 6    |
| Table 6 — Mandrel winding                                                                                                               | 6    |
| Table 7 — Breakdown voltage                                                                                                             | 6    |
| Table A.1 — Nominal cross-sectional areas                                                                                               | 8    |
| Table B.1 — Tolerances on nominal overall dimensions                                                                                    | 17   |