

Locking devices for ball and socket couplings of string insulator units — Dimensions and tests

The European Standard EN 60372:2004 has the status of a British Standard

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National foreword

This British Standard is the official English language version of EN 60372:2004. It is identical with IEC 60372:1984, including amendment 1:1991 and amendment 2:2003. It supersedes BS 3288-4:1989 which will be withdrawn on 2007-06-01.

The UK participation in its preparation was entrusted by Technical Committee PEL/36, Insulators for power systems, to Subcommittee PEL/36/2, Line insulators, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 17 and a back cover.

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**Locking devices for ball and socket couplings
of string insulator units –
Dimensions and tests
(IEC 60372:1984 + A1:1991 + A2:2003)**

Dispositifs de verrouillage pour
les assemblages à rotule et logement
de rotule des éléments de chaînes
d'isolateurs –
Dimensions et essais
(CEI 60372:1984 + A1:1991 + A2:2003)

Sicherungsvorrichtungen für Klöppel-
und Pfannen-Verbindungen
von Kettenisolatoren –
Maße und Prüfungen
(IEC 60372:1984 + A1:1991 + A2:2003)

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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.

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CENELEC

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

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Foreword

The text of the International Standard, IEC 60372:1984 + A1:1991 + A2:2003, prepared by SC 36B, Insulators for overhead lines, of IEC TC 36, Insulators, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 60372 on 2004-06-01 without any modification.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2005-06-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2007-06-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60372:1984 + A1:1991 + A2:2003 was approved by CENELEC as a European Standard without any modification.

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LOCKING DEVICES FOR BALL AND SOCKET COUPLINGS OF STRING INSULATOR UNITS: DIMENSIONS AND TESTS

SECTION ONE – GENERAL

1. Scope

This standard is applicable to locking devices used with ball and socket couplings of string insulator units and used with the corresponding metal fittings standardized in IEC Publication 120: Dimensions of Ball and Socket Couplings of String Insulator Units, when they are supplied separately.

When these locking devices are supplied with an insulator or fitting, they shall be considered as an integral part of it. In this case, the relevant tests shall be included with those of insulators, as specified in IEC Publication 383: Tests on Insulators of Ceramic Material or Glass for Overhead Lines with a Nominal Voltage Greater than 1000 V. On request, a certificate shall be delivered confirming that the tests on locking devices as specified in this publication, have been carried out. The locking devices are usually supplied with the insulators or corresponding metal fittings.

2. Object

The object of this standard is:

- to define the shapes and some standard dimensions for locking devices;
- to define the test methods for locking devices;
- to state the acceptance conditions for supply;
- to give other dimensions for guidance of manufacturing only.

The object of this standard does not include the specification of the nature of the material, but it is recommended that this material does not have a surface coating for corrosion protection. Moreover, the material shall not give rise to significant contact corrosion (chemical reaction) between the locking device and the ball and socket coupling.

3. Plan of the standard

The main part of this standard consists of the two following sections:

3.1 *Section Two: Dimensions and general rules*

Two types of locking devices are standardized, one using a split-pin, the other a W-shaped clip.

The first type requires a circular hole and the second a rectangular hole.