



NSAI
Standards

Irish Standard
I.S. EN IEC 60471:2020

Clevis and tongue couplings of string insulator units - Dimensions

I.S. EN IEC 60471:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

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EN IEC 60471:2020

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National Foreword

I.S. EN IEC 60471:2020 is the adopted Irish version of the European Document EN IEC 60471:2020, Clevis and tongue couplings of string insulator units - Dimensions

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EUROPEAN STANDARD

EN IEC 60471

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2020

ICS 29.080.10; 29.240.20

English Version

**Clevis and tongue couplings of string insulator units -
Dimensions
(IEC 60471:2020)**

Assemblages à chape et tenon des éléments de chaînes
d'isolateurs - Dimensions
(IEC 60471:2020)

Klöppel- und Pfannen-Verbindungen von Isolatorketten -
Anschlussmaße
(IEC 60471:2020)

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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

EN IEC 60471:2020 (E)**European foreword**

The text of document 36/484/FDIS, future edition 3 of IEC 60471, prepared by IEC/TC 36 "Insulators" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60471:2020.

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) 2021-05-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-08-13

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60305	NOTE	Harmonized as EN 60305
IEC 60383-1	NOTE	Harmonized as EN 60383-1
IEC 60433	NOTE	Harmonized as EN 60433
IEC 61325	NOTE	Harmonized as EN 61325
IEC 62223:2009	NOTE	Harmonized as EN 62223:2009 (not modified)

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 60050-471	2007	International Electrotechnical Vocabulary - Part 471: Insulators	-	-
IEC 60120	2020	Ball and socket couplings of string insulator units - Dimensions	EN IEC 60120	2020

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IEC 60471

Edition 3.0 2020-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Clevis and tongue couplings of string insulator units – Dimensions

**Assemblages à chape et tenon des éléments de chaînes d'isolateurs –
Dimensions**



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IEC 60471

Edition 3.0 2020-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Clevis and tongue couplings of string insulator units – Dimensions

Assemblages à chape et tenon des éléments de chaînes d'isolateurs – Dimensions

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CLEVIS AND TONGUE COUPLINGS OF STRING INSULATOR UNITS – DIMENSIONS

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60471 has been prepared by IEC technical committee 36: Insulators.

This third edition cancels and replaces the second edition published in 1977. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) According to the results of the questionnaire(36/424/Q), it is confirmed that there are no new clevis and tongue couplings;
- b) For the dimensions of the existing designated size of couplings that characterize the same location, the effective number of the size is unified.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
36/484/FDIS	36/494/RVD

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.

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.

CLEVIS AND TONGUE COUPLINGS OF STRING INSULATOR UNITS – DIMENSIONS

1 Scope

This international standard applies to string insulator units of the cap and pin type and also of the long rod type as well as the fittings used with such insulators.

The object of this document is to define the dimensions of a series of clevis and tongue couplings to permit the assembly of insulators or fittings supplied by different manufacturers.

NOTE 1 IEC 60305 gives the coordination between the standardized dimensions of Table 1 and the strength classes of cap and pin insulator. IEC 60433 gives the coordination between the standardized dimensions of Table 2 and the strength classes of long rod insulators.

NOTE 2 If the dimensions given in Table 1 are not sufficient, higher strength classes are given in IEC 60305.

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.

IEC 60050-471:2007, *International Electrotechnical Vocabulary (IEV) – Part 471: Insulators*

IEC 60120:2020, *Ball and socket couplings of string insulator units - Dimensions*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

clevis and tongue coupling

female part of a clevis and tongue coupling with a U-shaped opening into which the tongue coupling can be fitted

Note 1 to entry: A clevis contains two holes through which the coupling pin may pass to couple the two components.

3.2

clevis

female part of a clevis and tongue coupling with a U-shaped opening into which the tongue coupling can be fitted

Note 1 to entry: A clevis contains two holes through which the coupling pin may pass to couple the two components.

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