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***Draft Indian Standard***

**INSULATORS FOR OVERHEAD LINES WITH A NOMINAL VOLTAGE  
ABOVE 1 000 V —  
CERAMIC OR GLASS INSULATOR UNITS FOR D.C. SYSTEMS –  
DEFINITIONS, TEST METHODS AND ACCEPTANCE CRITERIA**

Last date of receipt of comments is – **12 November 2021**

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Electrical Insulators and Accessories Sectional Committee, ETD 06

**NATIONAL FOREWORD**

*(Formal clauses to be added later)*

This Indian Standard is identical with IEC 61325: 1995, ‘Insulators for overhead lines with a nominal voltage above 1 000 V —Ceramic or glass insulator units d.c. systems Definitions, test methods and acceptance criteria’ issued by the International Electrotechnical Commission (IEC).

The text of the IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to the following International Standards for which Indian Standards also exist. The corresponding Indian Standards, and documents under print which are to be substituted in their places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 50(471): 1984 International Electro technical Vocabulary (IEV) - Chapter 471: Insulators	IS 1885 : Part 54 : 2021 Electro technical vocabulary: Part 54 Insulators	Identical with 50(471): 2007
IEC 60-1: 1989 High-voltage test techniques - General definitions and test requirements	IS 2071 (Part 1) : 2016 High - Voltage test techniques – Part 1 General definitions and test requirements ( <i>third revision</i> )	Identical with IEC 60660-1:2010
IEC 305: 1978 Characteristics of string insulator units of the cap and pin type	IS/IEC 60305 : 1995 Insulators for overhead lines with a nominal voltage above 1 000 V — Ceramic or glass insulator units for a.c. systems — Characteristics of insulator units of the cap and pin type	Identical with IEC 60305: 1995
IEC 372: 1984 Locking devices for ball and socket couplings of string insulator units – Dimensions and tests	IS/IEC 60372 : 1984 Locking devices for ball and socket couplings of string insulators units — Dimensions and tests	Identical with IEC 60372: 1984
IEC 383-1: 1993 Insulators for overhead lines with a nominal voltage above 1 000 V – Part 1: Ceramic or glass insulator units for a.c. systems – Definitions, test methods and acceptance criteria	IS/IEC 60383(Part 1):1993 Insulators for Overhead Lines with a Nominal Voltage Above 1 000 V Part 1 Ceramic or glass insulator units for a.c. systems – Definitions, test methods and acceptance criteria	Identical with IEC 60383-1: 1993
IEC 471: 1977 Dimensions of clevis and tongue couplings of string insulator units	IS/IEC 60471 : 1977 Dimensions of clevis and tongue couplings of string insulator units	Identical with IEC 60471: 1977
IEC 1245: 1993 Artificial pollution tests on high-voltage insulators to be used on d.c. systems	IS/IEC TS 61245 : 2015 Artificial pollution tests on high-voltage ceramic and glass insulators to be used on d.c. systems	Identical with IEC 61245: 2015

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

<i>International Standard</i>	<i>Title</i>
IEC 120: 1984	Dimensions of ball and socket couplings of string insulator units
IEC 433: 1980	Characteristics of string insulator units of the long rod type
IEC 797: 1984	Residual strength of string insulator units of glass or ceramic material for overhead lines after mechanical damage to the dielectric

IEC 1211: 1994	Insulators of ceramic material or glass for overhead lines with a nominal voltage greater than 1 000 V – Puncture testing voltage greater than 1 000 V – Puncture testing
ISO 1459: 1973	Metallic coatings – Protection against corrosion by hot dip galvanizing – Guiding principles
ISO 1460: 1992	Metallic coatings – Hot dip galvanized coatings on ferrous metals – Gravimetric determination of the mass per unit area
ISO 1461: 1973	Metallic coatings Hot dip galvanized coatings on fabricated ferrous products
ISO 1463: 1982	Metallic and oxide coatings - Measurement of coating thickness – Microscopical method
ISO 2064: 1980	Metallic and other non-organic coatings – Definitions and conventions concerning the measurement of thickness
ISO 2178: 1982	Non-magnetic coatings on magnetic substrates – Measurement of coating thickness - Magnetic method

Only English language text has been retained while adopting it in this Indian Standard, and as such the page numbers given here are not the same as in the International Standard.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2: 1960 ‘Rules for rounding off numerical values (revised)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Note – The technical content of the document is not available on website. For details, please refer the corresponding **IEC 61325: 1995** or kindly contact:

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