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BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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भारतीय मानक मसौदा

विमान — विद्युत कनेक्टर
भाग 1 सामान्य आवश्यकताएं

(पहला पुनरीक्षण)

Draft Indian Standard

Aircraft — Electrical Connectors
Part 1 General Requirements

(First Revision)

ICS: 49.060

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| Air and Space Vehicles Sectional Committee, TED 14 | Last date for receipt of comments is |
| | 28/08/2024 |

NATIONAL FOREWORD

(Identical Clause to be added later)

This standard was originally published in 1987. The first revision of this standard has been undertaken to keep pace with the latest technological developments and align it with the latest version of ISO 1949: 1987.

This standard is one of the parts of Standards on the Aircraft — Electrical Connectors. Other Parts of this standard are:

Part 1: Vehicles and Child Restraint Systems Equipped with ISOFIX Anchorages and Attachments Part 4: Securing of child in child restraint system and daily handling aspects

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

- Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- 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 certain International Standard for which Indian Standard also exists. The corresponding Indian Standard, which is to be substituted in its respective places, is listed below along with its degree of equivalence for the edition indicated:

| <i>International Standard</i> | <i>Corresponding Indian Standard</i> | <i>Degree of Equivalence</i> |
|---|--|--------------------------------|
| ISO 2100:1987 Aircraft Electrical connectors Tests | IS 12043 (Part 2): XXXX/ ISO 2100: 1987 Aircraft Electrical Connectors Tests (<i>under development</i>) | Identical under dual numbering |

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

| <i>International Standard/ Other Publication</i> | <i>Title</i> |
|--|---|
| ISO 1966 : 1973 | Crimped joints for aircraft electric cables. |
| ISO/TR 2685 | Aircraft - Environmental conditions and test procedures for airborne equipment - Resistance to fire in designated fire zones. |
| IEC Publication 50(581) | International Electrotechnical Vocabulary - Chapter 581: Electromechanical components for electronic equipment. |
| IEC Publication 130-1 | Connectors for frequencies below 3 MHz - Part 1: General requirements and measuring methods. |

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. The Bureau of Indian Standards shall not be held responsible for identifying any or all such patent rights.

SCOPE

This International Standard lays down the general performance requirements and standardization principles for aircraft connectors. It is intended to cover types of connectors designed to use crimped, soldered and welded contacts accommodating aircraft cables. It does not define a particular type of connector dimensionally.

This International Standard outlines the basic design, mechanical and electrical requirements for the connectors and the basic environmental conditions of operation.

FOR COMPLETE TEXT OF THE DOCUMENT KINDLY REFER ISO 1949: 1987 or CONTACT:

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