

Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures –55 °C to 175 °C —

Part 002: Specification of performance and contact arrangements

The European Standard EN 3545-002:2005 has the status of a
British Standard

ICS 49.060

National foreword

This British Standard is the official English language version of EN 3545-002:2005.

The UK participation in its preparation was entrusted by Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology, to Subcommittee ACE/6/-/3, Aerospace — connectors, 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 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.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 14, an inside back cover and a back cover.

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 February 2006

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ISBN 0 580 47898 X

Amendments issued since publication

Amd. No.	Date	Comments

English Version

Aerospace series - Connectors, electrical, rectangular, with
sealed and non-sealed rear, plastic housing, locking device,
operating temperatures - 55 °C to 175 °C - Part 002:
Specification of performance and contact arrangements

Série aérospatiale - Connecteurs électriques,
rectangulaires, étanches et non étanches à l'arrière, à
boîtier en plastique, à verrouillage, températures
d'utilisation - 55 °C à 175 °C - Partie 002 : Spécification de
performances et d'arrangements des contacts

Luft- und Raumfahrt - Elektrische Rechtecksteckverbinder
mit und ohne hintere Abdichtung, Plastikgehäuse,
Verriegelungssystem, Betriebstemperaturen von - 55 °C bis
175 °C - Teil 002: Leistungsdaten und Kontaktanordnungen

This European Standard was approved by CEN on 26 September 2005.

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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 CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Foreword

This European Standard (EN 3545-002:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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1 Scope

This standard specifies conditions which are common to rectangular electrical connectors with sealed and non-sealed rear, plastic housing, locking device, for operating temperatures from – 55 °C to 175 °C.

It shall be used together with EN 3545-001.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 2591-100, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General.*

EN 2591-209, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 209: Current temperature derating.*

EN 3155-002, *Aerospace series — Electrical contacts used in elements of connection — Part 002: List and utilization of contacts.*¹⁾

EN 3155-003, *Aerospace series — Electrical contacts used in elements of connection — Part 003: Contacts, electrical, female, type A, crimp, class S — Product standard.*

EN 3155-008, *Aerospace series — Electrical contacts used in elements of connection — Part 008: Contacts, electrical, male, type A, crimp, class S — Product standard.*

EN 3155-070, *Aerospace series — Electrical contacts used in elements of connection — Part 070: Contacts, electrical, male, type A, crimp, class S — Product standard.*²⁾

EN 3155-071, *Aerospace series — Electrical contacts used in elements of connection — Part 071: Contacts, electrical, female, type A, crimp, class S — Product standard.*²⁾

EN 3197, *Aerospace series — Installation of aircraft electrical and optical interconnection systems.*¹⁾

EN 3545-001, *Aerospace series — Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures – 55 °C to 175 °C — Part 001: Technical specification.*

EN 3545-003, *Aerospace series — Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures – 55 °C to 175 °C — Part 003: Connectors with female contacts — Product standard.*

EN 3545-004, *Aerospace series — Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures – 55 °C to 175 °C — Part 004: Connectors with male contacts — Product standard.*

EN 3545-005, *Aerospace series — Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures – 55 °C to 175 °C — Part 005: Female coding and attachment system for mounting on free housing (plug) — Product standard.*¹⁾

1) Published as AECMA Prestandard at the date of publication of this standard.

2) In preparation at the date of publication of this standard.