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**Aeronavtika - Konektorji, električni, pravokotni, s tesnilno kapo ali brez nje, plastičnim ohišjem, zapornim mehanizmom, z delovno temperaturo med -55 °C in 175 °C - 003. del: Konektorji z ženskim kontaktom - Standard za proizvod**

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

Luft- und Raumfahrt - Elektrische Rechtecksteckverbinder mit und ohne hintere Abdichtung, Plastikgehäuse, Verriegelungssystem, Betriebstemperaturen von -55 °C bis 175 °C - Teil 003: Steckverbinder mit Buchsenkontakten - Produktnorm

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 003 : Connecteurs à contacts femelles - Norme de produit

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**Ta slovenski standard je istoveten z: prEN 3545-003**

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**ICS:**

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

**oSIST prEN 3545-003:2025**

**en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 3545-003**

November 2024

ICS 49.060

Will supersede EN 3545-003:2005

English Version

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This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ASD-STAN.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (prEN 3545-003:2024) has been prepared by ASD-STAN.

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

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 3545-003:2005.

This document includes the following significant technical changes with respect to EN 3545-003:2005:

- Clause 5 Designation: differentiation between cadmium plated and zinc-nickel plated connectors and introduction of corresponding coding;
- editorial improvements.

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## prEN 3545-003:2024 (E)

### 1 Scope

This document specifies connectors with female contacts in the family of rectangular electrical connectors with sealed and non-sealed rear, plastic housing, locking device, for operating temperatures from  $-55\text{ °C}$  to  $175\text{ °C}$ .

These connectors may be used as receptacles (fixed housings) or plugs (free housings) in conjunction with the following coding and attachment system:

- male coding and attachment system for mounting on a fixed housing;
- female coding and attachment system for mounting on a free housing.

### 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.

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

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 3155-015, *Aerospace series — Electrical contacts used in elements of connection — Part 015: Contacts, electrical, female, type A, crimp, class S — Product standard*

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

EN 3545-002, *Aerospace series — Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures  $-55\text{ °C}$  to  $175\text{ °C}$  — Part 002: Specification of performance and contact arrangements*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 2591-100 apply.

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

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

### 4 Required characteristics

#### 4.1 Dimensions, mass

Dimensions and mass shall be according to Figure 1, Figure 2 and Table 1.

Dimensions and tolerances are in millimetres.

Mass (without accessory and without contact):

- non-sealed housing: 19 g max.;
- sealed housing: 21 g max.