



SLOVENSKI STANDARD
oSIST prEN 3155-009:2024
01-maj-2024

**Aeronavtika - Električni kontakti za uporabo v veznih elementih - 009. del:
Električni kontakti, ženski, tip A, nagubani, razred S - Standard za proizvod**

Aerospace Series - Electrical contacts used in elements of connection - Part 009:
Contacts, electrical, female, type A, crimp, class S - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 009: Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse S - Produktnorm

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie
009 : Contacts électriques, femelles, type A, à sertir, classe S - Norme de produit

Ta slovenski standard je istoveten z: prEN 3155-009

[oSIST prEN 3155-009:2024](https://standards.sist.si/standards/sist/prEN/3155-009/2024)

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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oSIST prEN 3155-009:2024

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 3155-009

November 2023

ICS 49.060

Will supersede EN 3155-009:2019

English Version

Aerospace Series - Electrical contacts used in elements of connection - Part 009: Contacts, electrical, female, type A, crimp, class S - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 009: Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse S - Produktnorm

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 3155-009:2023) has been prepared by the Aerospace and Defence Industries Association of Europe — Standardization (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 3155-009:2019.

prEN 3155-009:2023 includes the following significant technical changes with respect to EN 3155-009:2019:

- normative references updated;
- footnote added for diameter E and G in Figure 1;
- remarks modified in Table 8, test EN 2591-403 (sinusoidal and random vibration);
- document editorially revised.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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prEN 3155-009:2023 (E)**1 Scope**

This document specifies the required characteristics, tests and tooling applicable to female electrical contacts 009, type A, crimp, class S, used in elements of connection according to EN 3155-002.

It is used together with EN 3155-001.

The associated male contacts are specified in EN 3155-008.

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 2083, *Aerospace series — Copper and copper alloys conductors for electrical cables — Product standard*

EN 2591 (all parts), *Aerospace series — Elements of electrical and optical connection — Test methods*

EN 3155-001, *Aerospace series — Electrical contacts used in elements of connection — Part 001: Technical Specification*

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

TR 4837, *Aerospace series — Applicable crimping tools for electrical contact product standards EN 3155-003, EN 3155-008 and EN 3155-009 for contact size # 10 and barrel size # 10 only*¹

EN 3645 (all parts), *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 001: Technical specification*

EN 3660-020, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 020: Cable outlet, style A, straight, unsealed, self-locking with clamp strain relief for EN 3645 — Product standard*

EN 4434, *Aerospace series — Copper or copper alloy lightweight conductors for electrical cables — Product standard (Normal and tight tolerances)*

ISO 8843, *Aircraft — Crimp-removable contacts for electrical connectors — Identification system*²

SAE-AS 22520, *Crimping Tools, Wire Termination, General Specification For*³

SAE-AS 81969, *Installing and Removal Tools, Connector Electrical Contact, General Specification for*³

¹ Published as ASD-STAN Technical Report at the date of publication of this standard by AeroSpace and Defence Industries Association of Europe – Standardization (ASD-STAN) (www.asd-stan.org).

² Published by: ISO International Organization for Standardization <http://www.iso.ch/>

³ Published by: SAE International (US) <http://www.sae.org/>.

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 3155-001 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 Specific characteristics

Type A contacts are for general application and class S corresponds to an operating temperature range from -65 °C to 200 °C .

4.2 Dimensions and mass

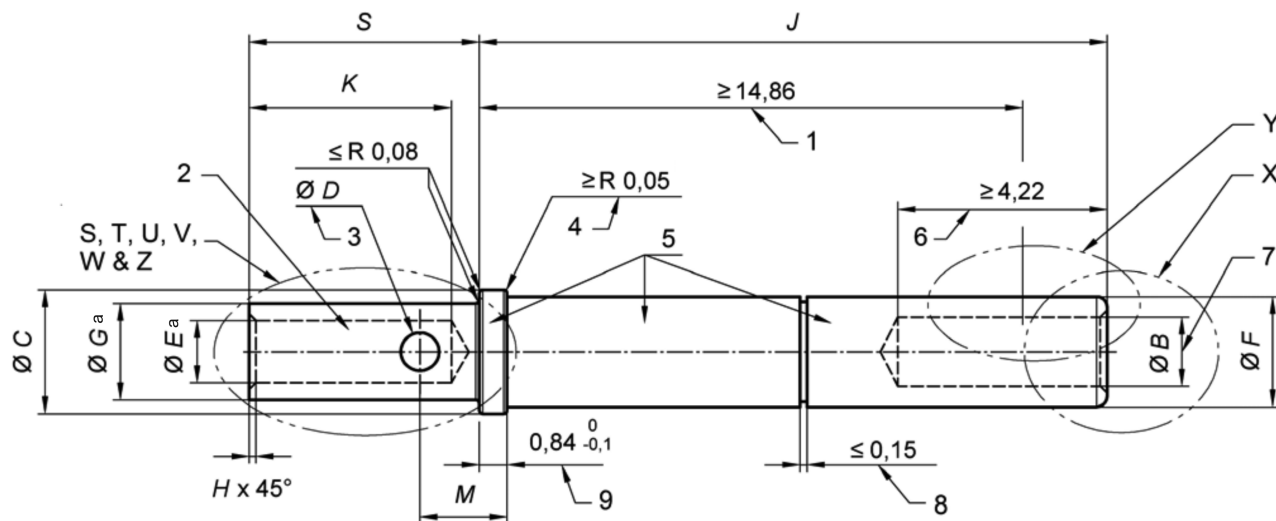
According to Figure 1 to Figure 9 and Table 1.

Dimensions and tolerances are given in millimetres and apply after surface treatment.

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Key

- 1 position of the first point and the maximum length of electrical contact (point at which a square ended minimum gauge pin of the same basic diameter as the mating contact first engages the female contact spring member). According to EN 3155-001 for active area definition.
- 2 colour bands, see Table 2
- 3 identification groove optional
- 4 break allowed
- 5 authorized area of manufacturer identification
- 6 This dimension represents the length to allow full pin engagement.
- 7 $\varnothing B$ represents the bore.
- 8 clearance between sleeve and body of the contact
- 9 Not applicable for contact size 22.

	$\varnothing 0,1$	\varnothing General concentricity		$\varnothing 0,08$	Concentricity between $\varnothing C$ and $\varnothing D$ for size 22 contact
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	$\varnothing 0,025$	Concentricity between $\varnothing C$ and $\varnothing D$ for all size contacts except size 22
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^a for size 22

	$\varnothing 0,08$	$\varnothing E$	$\varnothing G$
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for all other sizes

	$\varnothing 0,025$	$\varnothing E (M)$	$\varnothing G (M)$
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Figure 1 — Connector contact

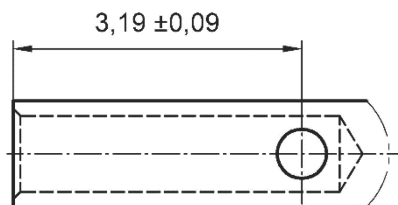
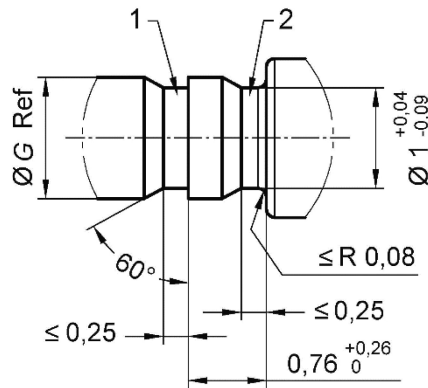
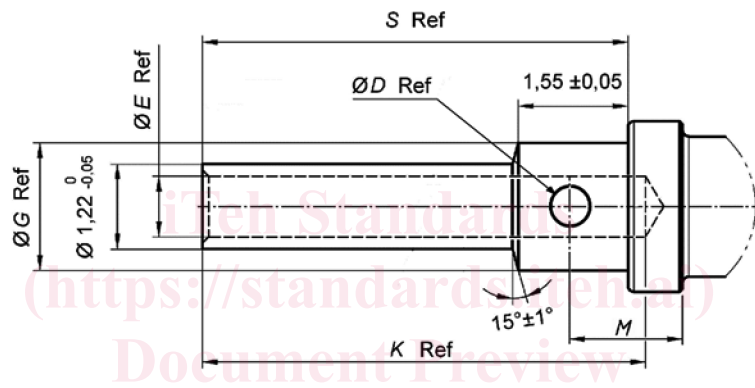


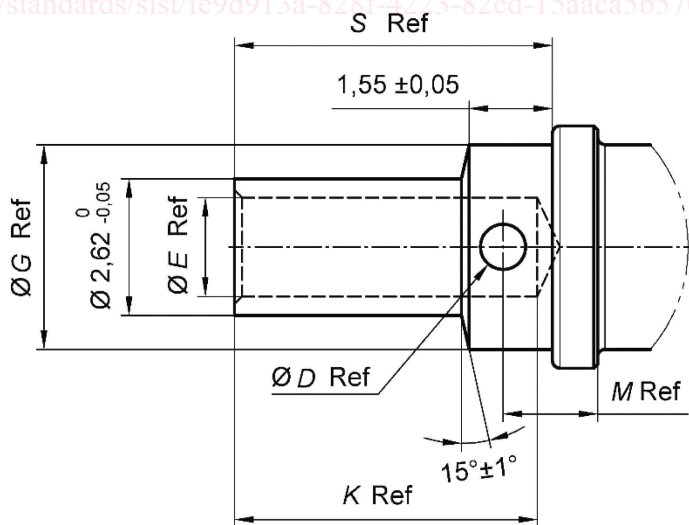
Figure 2 — Detail S - Contact size 22, barrel size 22

**Key**

- 1 identification groove optional
- 2 retention groove

Figure 3 — Detail T - Contact size 22, barrel size 22**Figure 4 — Detail U - Contact size 20, barrel size 22**

<https://standards.iteh.ai/catalog/standards/sist/fe9d913a-828f-4223-82cd-15aaca5b5701/osist-pren-3155-009-2024>

**Figure 5 — Detail V - Contact size 12, barrel size 14**

prEN 3155-009:2023 (E)

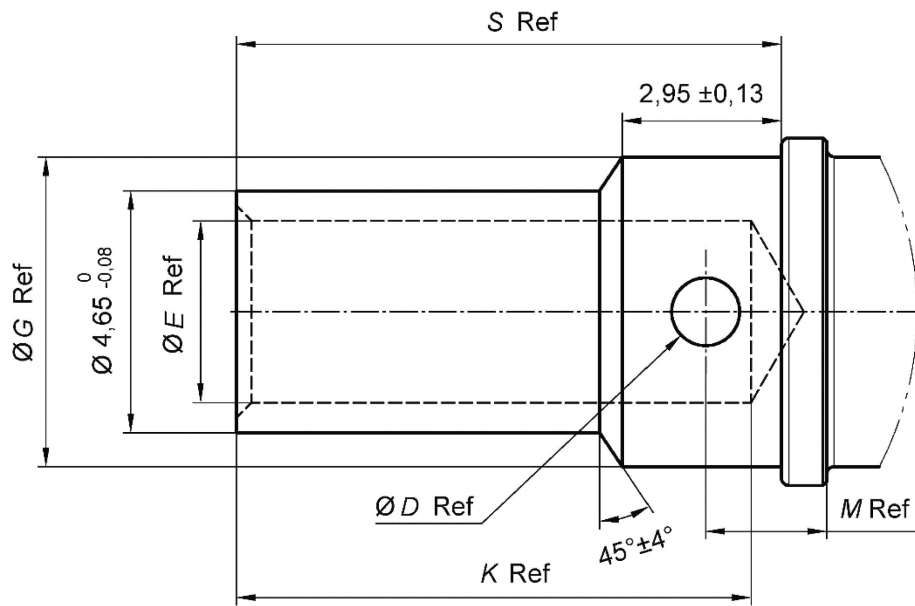
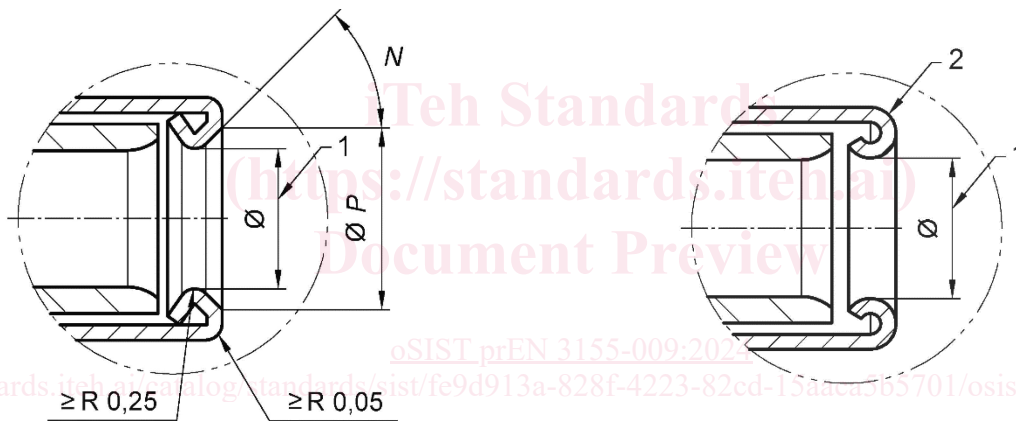


Figure 6 — Detail W - Contact size 10



Optional design

Key

- 1 The max. entry diameter shall be compliant with the value defined in EN 3155-001 test EN 2591-502 Restricted entry.
- 2 1 (one) full radius permissible

Figure 7 — Detail X