



# SLOVENSKI STANDARD SIST EN 3155-015:2019

01-september-2019

Nadomešča:

SIST EN 3155-015:2009

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**Aeronavtika - Električni kontakti za uporabo v veznih elementih - 015. del:  
Kontakti, električni, ženski, tip A, nagubani, razred S - Standard za proizvod**

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

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -  
Teil 015: Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse S - Produktnorm

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

**Ta slovenski standard je istoveten z: EN 3155-015:2019**

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**ICS:**

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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**SIST EN 3155-015:2019**

**en,fr,de**

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EUROPEAN STANDARD

**EN 3155-015**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2019

ICS 49.060

Supersedes EN 3155-015:2006

English Version

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

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 015 : Contacts électriques, femelles, type A, à sertir, classe S - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -Teil 015: Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse S - Produktnorm

This European Standard was approved by CEN on 1 December 2018.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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 CEN-CENELEC Management Centre has the same status as the official versions.

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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 (EN 3155-015:2019) 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 Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, 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 December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 3155-015:2006.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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**EN 3155-015:2019 (E)****1 Scope**

This European Standard specifies the required characteristics, tests and tooling applicable to female electrical contacts 015, type A, crimp, class S, used in elements of connection according to EN 3155-002.

It shall be used together with EN 3155-001.

The associated male contacts are defined in EN 3155-014.

**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 or copper alloy 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*

EN 3155-014, *Aerospace series — Electrical contacts used in elements of connection — Part 014: Contacts, electrical, male, type A, crimp, class S — Product standard*

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

EN 3545 (all parts), *Aerospace series — Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures – 55 °C to 175 °C*

ISO 8843, *Aircraft — Crimp-removable contacts for electrical connectors — Identification system* <sup>1)</sup>

SAE-AS22520, *Crimping tools, wire termination, general specification for* <sup>2)</sup>

SAE-AS81969, *Installing and removal tools, connector electrical contact, general specification for* <sup>2)</sup>

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1) Published by: International Organization for Standardization (ISO), <http://www.iso.ch/>

2) Published by: National (US) Society of Automotive Engineers (SAE), <http://www.sae.org/>

### 3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 3155-001 apply.

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

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

### 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

See Figures 1, 2 and 3 and Table 1.

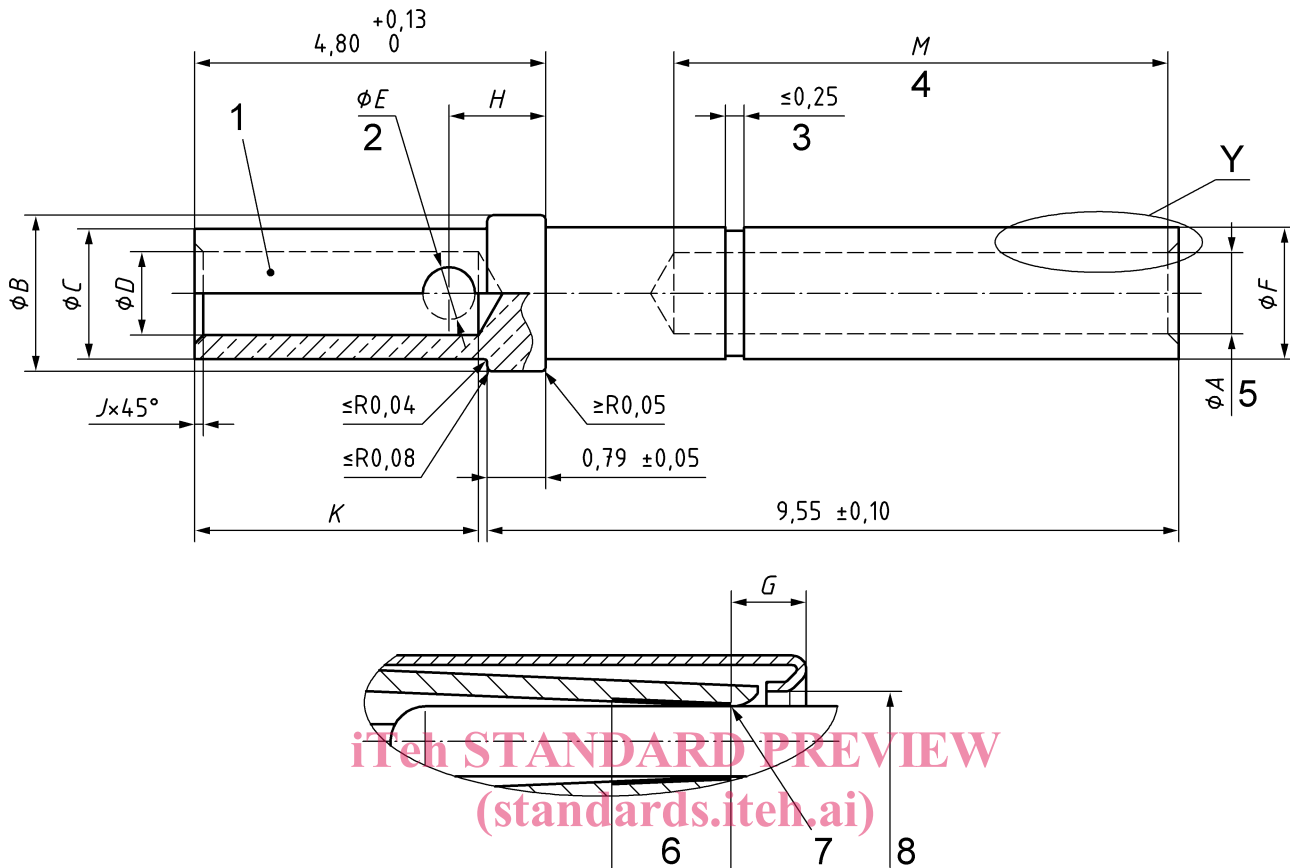
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## EN 3155-015:2019 (E)

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



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## Key

- 1 Colour bands, see Table 2.
- 2 One side only.
- 3 This dimension represents the length to allow full pin engagement.
- 4 Clearance between sleeve and body of the contact.
- 5  $\varnothing A$  represents the bore.
- 6 Female active area: See EN 3155-001 for definition.
- 7 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) (See EN 3155-001 for active area definition).
- 8 The max. entry diameter shall be compliant with the value defined in EN 3155-001 test EN 2591-502 restricted entry.

Figure 1 — Connector contact



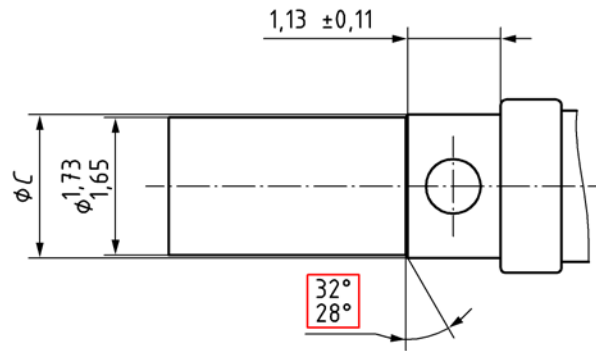
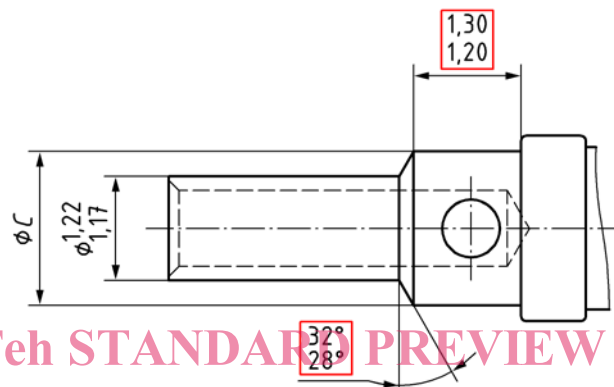


Figure 2 — Barrel 20-20



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Figure 3 — Barrel 20-22

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Table 1 — Connector contact

Size		A	B	C	D	E	F	G	H	J	K	M	Mass
Contact	Barrel							max.				min.	g max.
20	22	1,14 1,07	2,16 2,08	1,80 1,73	0,90 0,85	0,85 0,60	1,85 1,75	1,04	1,40 1,24	0,15 0,10	4,70 3,60	7,00	0,17
20	20	1,14 1,07	2,16 2,08	1,80 1,73	1,17 1,09	0,85 0,60	1,85 1,75	1,04	1,40 1,24	0,15 0,10	4,70 3,60	7,00	0,17
20	18	1,14 1,07	2,16 2,08	1,80 1,73	1,35 1,30	0,85 0,60	1,85 1,75	1,04	1,40 1,24	0,15 0,10	4,70 3,60	7,00	0,17