SLOVENSKI STANDARD
SIST EN 3155-071:2019

01-november-2019

Nadomešča:
SIST EN 3155-071:2015

Aeronavtika - Električni kontakti za uporabo v veznih elementih - 071. del: Kontakti, električni, ženski, tip A, nagubani, razred S - Standard za proizvod

Aerospace series - Electrical contacts used in elements of connection - Part 071: Contacts, electrical, female, type A, crimp, class S - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 071: Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse S - Produktnorm

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Série aérospatiale Contacts électriques utilisés dans les organes de connexion Partie 071 : Contacts électriques, femelles, type A, à sertir, classe S - Norme de produit

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Ta slovenski standard je istoveten z: **EN 3155-071:2019**

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

SIST EN 3155-071:2019 **en,fr,de**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3155-071

September 2019

ICS 49.060

Supersedes EN 3155-071:2014

English Version

Aerospace series - Electrical contacts used in elements of connection - Part 071: Contacts, electrical, female, type A, crimp, class S - Product standard

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 071 : Contacts électriques, femelles, type A, à sertir, classe S - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 071: Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse S - Produktnorm

This European Standard was approved by CEN on 3 June 2019.

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

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 3155-071:2019) 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 March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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 3155-071:2014.

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1 Scope

This document specifies the required characteristics, tests and tooling applicable to female electrical contacts 071, 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 3155-008 and EN 3155-070.

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 2242, *Aerospace series — Crimping of electric cables with conductors defined by EN 2083, EN 4434 and EN 2346*

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*

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

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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*

EN 4165-001, *Aerospace series — Connectors, electrical, rectangular, modular — Operating temperature 175 °C continuous — Part 001: Technical specification*

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* [1)]

SAE-AS22520, *Crimping tools, wire termination, general specification for* [2)]

SAE-AS81969, *Installing and removal tools, connector electrical contact, general specification for* [2)]

3 Terms and definitions

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

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

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

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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 Figure 1 and Table 1.

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

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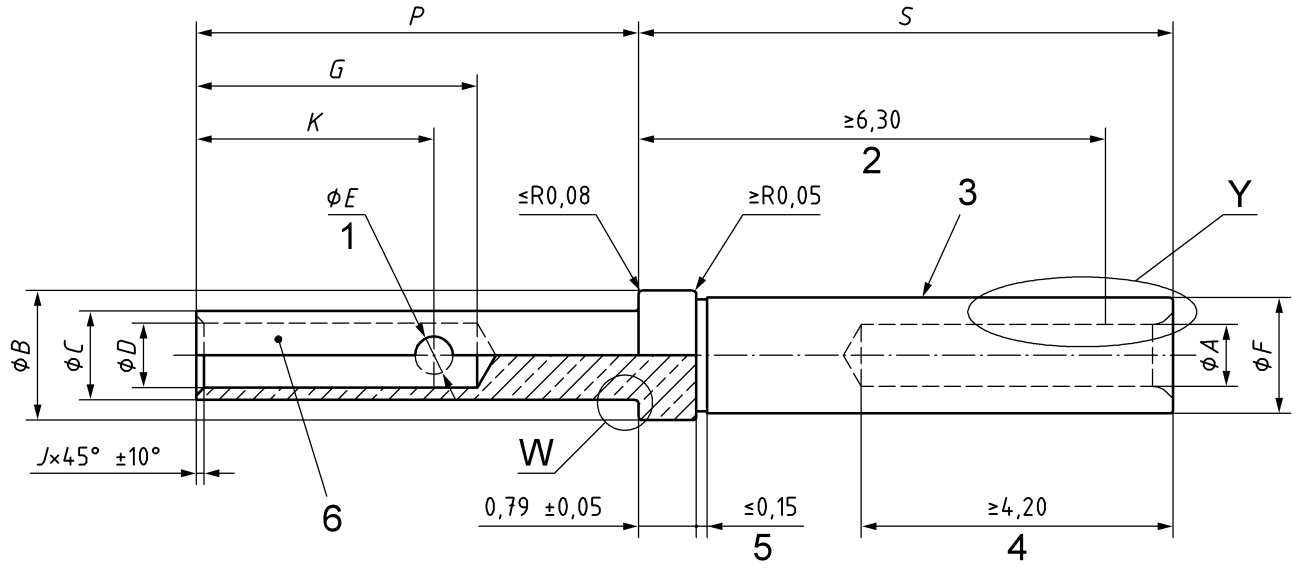

◎ Ø 0,10	Ø General concentricity	◎ Ø 0,08	Ø *C* and Ø *D*

Key

1 One side only

2 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 female contact spring member). (see EN 3155-001 for active area definition)

3 Manufacturer identification

4 This dimension represents the length to allow full pin engagement

5 Clearance between sleeve and body of the contact

6 Colour bands, see Table 2

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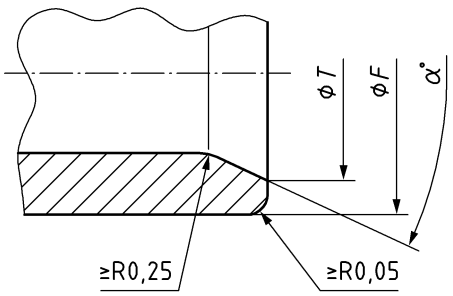
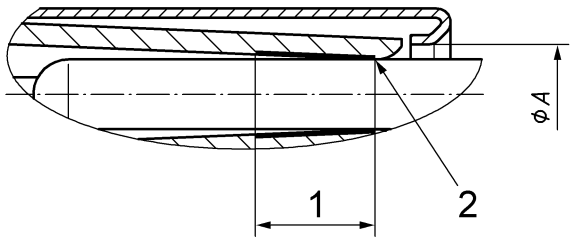
Optional shape but specified dimensions shall be respected





Key

1 Female active area: see EN 3155-001 for definition.

2 First point of electrical contact (point at which a square ended minimum gauge pin of the same basic diameter as the mating contact first engages female contact spring member). (see EN 3155-001 for active area definition).

Detail Y

Figure 1 — Connector contact *(1 of 2)*

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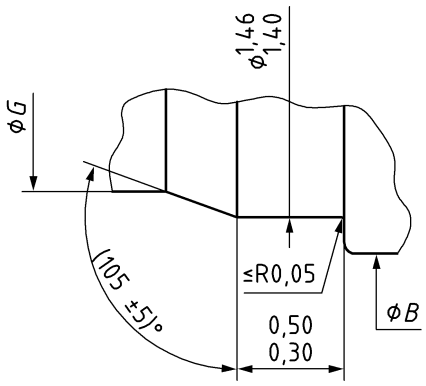
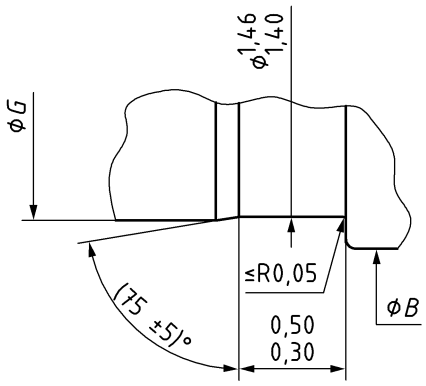


Detail W for 2222 version



Detail W for 2220 version

Figure 1 — Connector contact *(2 of 2)*

Table 1 — Connector contact

Size		Ø *A*	Ø *B*	Ø *C*	Ø *D*	Ø *E*	Ø *F*	*G*	*J*	*K*	*P*	*S*	Ø *T*	*α* °	Mass g
Contact	**Barrel**	min.					max.						min.		max.
22	22	0,78	1,80 1,75	1,22 1,17	0,90 0,85	0,56 0,46	1,57	3,99 3,58	0,13 0,08	3,28 3,10	6,02 5,87	7,34 7,09	1,19	50 44	0,13
22	20	0,78	1,80 1,75	1,50 1,45	1,12 1,09	0,56 0,46	1,57	3,99 3,58	0,11 0,05	3,28 3,10	6,02 5,87	7,34 7,09	1,19	50 44	0,13

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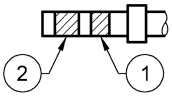
4.3 Marking by colour code

See Table 2.

Table 2 — Marking by colour code

Size		Colour identification bands according to ISO 8843 	
Contact	**Barrel**	① **Band 1**	② **Band 2** [a]
22	22	Green	Green
22	20	Green	Red
As an alternative, when the two band colours are the same, only one band of 2 mm width nominal can be applied.			
[a] The width of the band 2 shall be twice the width of the band 1.			