



SLOVENSKI STANDARD SIST EN 3155-081:2019

01-november-2019

Nadomešča:

SIST EN 3155-081:2015

Aeronavtika - Električni kontakti za uporabo v veznih elementih - 081. del: Kontakti velikosti 22 za EN 2997, električni, ženski, tip A, nagubani, razred T - Standard za proizvod

Aerospace series - Electrical contacts used in elements of connection - Part 081: Contacts size 22 for EN 2997, electrical, female, type A, crimp, class T - Product standard

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Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 081: Elektrische Buchsenkontakte Größe 22 für EN 2997, Typ A, crimpbar, Klasse T - Produktnorm

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Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 081 : Contacts électriques taille 22 pour EN 2997, femelles, type A, à sertir, classe T - Norme de produit

Ta slovenski standard je istoveten z: EN 3155-081:2019

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 3155-081:2019

en,fr,de

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EUROPEAN STANDARD

EN 3155-081

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2019

ICS 49.060

Supersedes EN 3155-081:2014

English Version

Aerospace series - Electrical contacts used in elements of connection - Part 081: Contacts size 22 for EN 2997, electrical, female, type A, crimp, class T - Product standard

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Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 081: Elektrische Buchsenkontakte Größe 22 für EN 2997, Typ A, crimpbar, Klasse T - Produktnorm

This European Standard was approved by CEN on 14 July 2019.

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 3155-081:2019) 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 3155-081:2014.

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

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EN 3155-081:2019 (E)**1 Scope**

This document specifies the required characteristics and tests applicable to female electrical contacts 081, type A, crimp, class T, 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 3155-080.

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 2997 (all parts), *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak*

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*

<https://standards.iteh.ai/catalog/standards/sist/15cbff47-0215-455f-9e78-157015010000/sist-en-3155-081-2019>

EN 3155-080, *Aerospace series — Electrical contacts used in elements of connection — Part 080: Contacts size 22 for EN 2997, electrical, male, type A, crimp, class T — 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* 1)

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

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

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/>

3 Terms and definitions

For the purposes of this document, 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

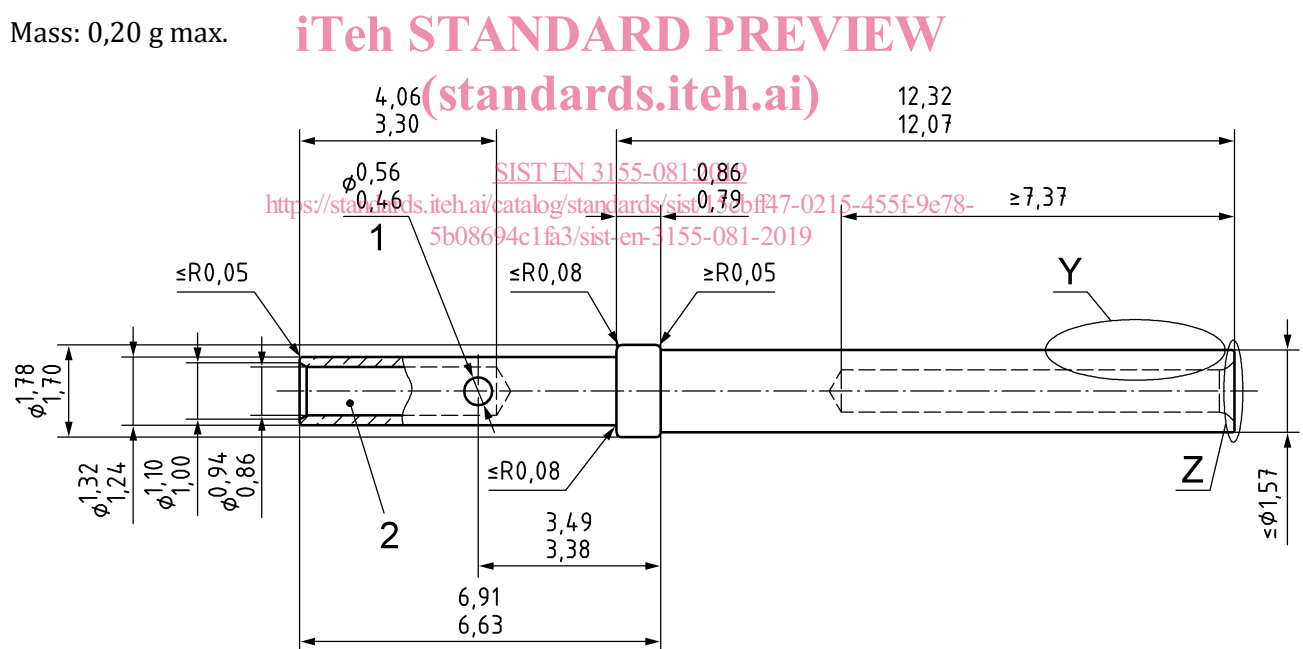
Type A contacts are for general application and class T corresponds to an operating temperature range from -65 °C to 260 °C .

4.2 Dimensions and mass

See Figure 1.

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

Mass: 0,20 g max.

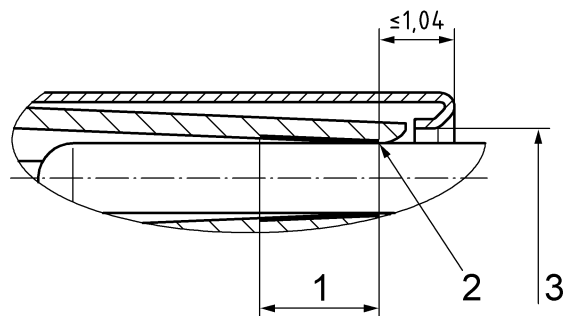


Key

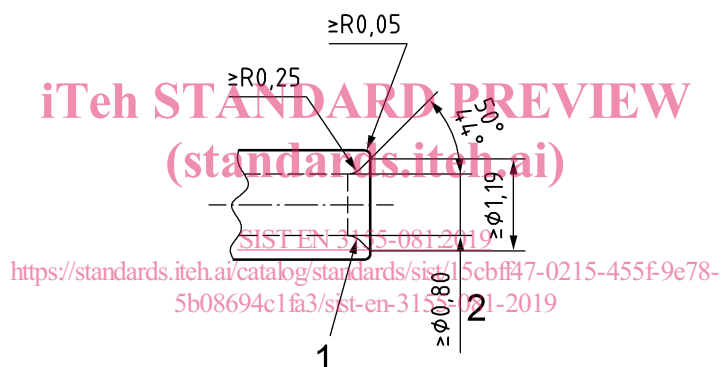
- 1 One side only
- 2 Colour bands, see Table 1.

Figure 1 — Dimensions (1 of 2)

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**Key**

- 1 Female active area: see EN 3155-001 for active area definition
- 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 the female contact spring member). (see EN 3155-001 for active area definition).
- 3 The max entry diameter shall be compliant with the value defined in EN 3155-001 test EN 2591-502 "restricted entry".

Detail Y – Optional shape but specified dimensions shall be respected**Key**

- 1 One full rad. permissible
- 2 $\varnothing 0,80$ represents the bore

Detail Z**Figure 1 — Dimensions (2 of 2)****4.3 Marking by colour code**

See Table 1.

Table 1 — Marking by colour code

Size		Colour identification bands according to ISO 8843		
Contact	Barrel	① Band 1	② Band 2 ^a	③ Dot
22	22	Green	Green	White
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.				

4.4 Material, surface treatment

- Body material: copper alloy.
- Surface treatment: gold on an appropriate undercoat, thickness of protection see EN 3155-001, selective protection permitted.

4.5 Permissible cables

See Table 2.

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Table 2 — Permissible cables

Size		Size of conductors			Rated test current A
Contact	Barrel	ASD code	Section mm ²	AWG ^a	
22	22	004	0,40	22	5
		002	0,25	24	3
		001	0,15	26	2
^a AWG = Closest American Wire Gauge.					

4.6 Tooling

4.6.1 Crimping tools

Conform to SAE-AS22520, see Table 3.

The qualification selector numbers used for crimping copper or copper alloy conductors in cables EN 2083 or EN 4434 are indicated in Table 3.

It is the responsibility of the user if the parameters in Table 3 are changed for service use.