



# SLOVENSKI STANDARD

## SIST EN 3155-026:2019

01-oktober-2019

Nadomešča:

SIST EN 3155-026:2012

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**Aeronavtika - Električni kontakti za uporabo v veznih elementih - 026. del:  
Kontakti, električni, moški, tip A, nagubani, razred R - Standard za proizvod**

Aerospace series - Electrical contacts used in elements of connection - Part 026:  
Contacts, electrical, male, type A, crimp, class R - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -  
Teil 026: Elektrische Stiftkontakte, Typ A, crimpbar, Klasse R - Produktnorm

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie  
026 : Contacts électriques, mâles, type A, à sertir, classe R - Norme de produit

**Ta slovenski standard je istoveten z: EN 3155-026:2019**

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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 3155-026:2019**

**en,fr,de**

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EUROPEAN STANDARD

**EN 3155-026**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2019

ICS 49.060

Supersedes EN 3155-026:2010

English Version

## Aerospace series - Electrical contacts used in elements of connection - Part 026: Contacts, electrical, male, type A, crimp, class R - Product standard

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 026 : Contacts électriques, mâles, type A, à sertir, classe R - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 026: Elektrische Stiftkontakte, Typ A, crimpbar, Klasse R - Produktnorm

This European Standard was approved by CEN on 29 April 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.

CEN members are the national standards bodies of 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 United Kingdom.



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 3155-026:2019) 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 February 2020, and conflicting national standards shall be withdrawn at the latest by February 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 3155-026:2010.

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, 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 3155-026:2019 (E)****1 Scope**

This document specifies the required characteristics and tests applicable to male electrical contacts 026, type A, crimp, class R, used in elements of connection according to EN 3155-002.

It shall be used together with EN 3155-001.

The associated female contacts are defined in EN 3155-027.

**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*

EN 3155-027, *Aerospace series — Electrical contacts used in elements of connection — Part 027: Contacts, electrical, female, type A, crimp, class R — Product standard*

EN 3682-001, *Aerospace series — Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °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).*

SAE-AS22520, *Crimping tools, wire termination, general specification for 1)*

SAE-AS81969, *Installing and removal tools, connector electrical contact, general specification for 1)*

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

**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>

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

2) Published by: International International Standardisation Organisation (ISO), <http://www.iso.ch/>

## 4 Required characteristics

### 4.1 Specific characteristics

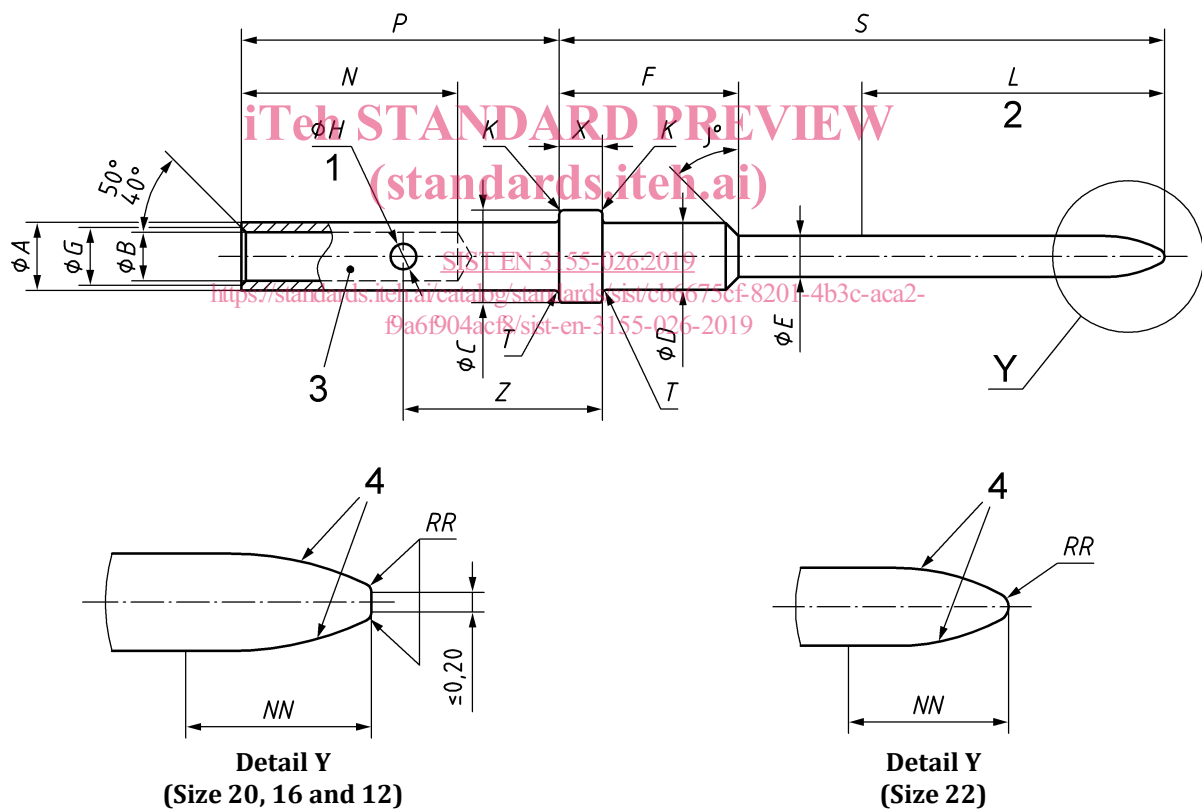
Type A contacts are for general application and class R corresponds to an operating temperature range from  $-65\text{ }^{\circ}\text{C}$  to  $150\text{ }^{\circ}\text{C}$ .

### 4.2 Dimensions and mass

See Figure 1, Figure 2 and Table 1.

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

- Diameter general concentricity  $\text{◎ } \text{Ø } 0,06$
- Contact size 22 and 20  $\text{◎ } \text{Ø } 0,10 \text{ } \text{Ø } A$   $\text{◎ } \text{Ø } 0,08 \text{ } \text{Ø } B$
- Contact size 16 and 12  $\text{◎ } \text{Ø } 0,15 \text{ } \text{Ø } A$   $\text{◎ } \text{Ø } 0,10 \text{ } \text{Ø } B$

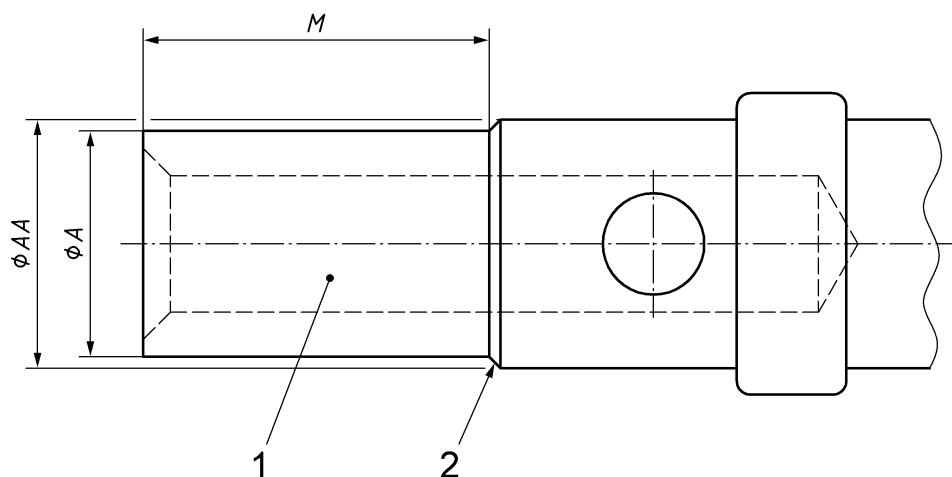


### Key

- 1 1 (one) side only
- 2 See EN 3155-001 for Length of Selective Protection "LSP" definition
- 3 Colour bands, see Table 2
- 4 Interconnection radius

NOTE No sharp angle on the front side of the contact shoulder.

Figure 1

**Key**

- 1 Colour bands, see Table 2  
2 Chamfer or radius

**Figure 2 — Barrel, contacts 20-20, 16-16 and 12-12****Table 1**

Size		$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing D$	$\varnothing E$	$F$	$\varnothing G$	$\varnothing H$	$J$	$K$	$L$
Contact	Barrel									degree	Radius max.	min.
22	22	1,32 1,27	0,95 0,86	1,78 1,73	1,27 1,22	0,79 0,74	3,48 3,23	1,19 1,04	0,56 0,46	—	0,08	6,64
20	20	1,73 1,65	1,17 1,09	2,13 2,08	1,83 1,75	1,04 0,99	4,50 4,34	1,47 1,32	0,84 0,64	50 40	0,08	7,70
16	16	2,62 2,57	1,73 1,68	3,40 3,30	2,87 2,79	1,61 1,56	6,12 5,74	2,29 2,03	1,07 0,91	35 25	0,13	9,24
12	12	3,84 3,76	2,59 2,49	4,83 4,72	3,84 3,76	2,41 2,36	6,12 5,74	3,56 3,30	1,07 0,91	35 25	0,13	8,97

Size		$M$	$N$	$P$	$S$	$T$	$X$	$Z$	$\varnothing AA$	$NN$	$RR$	Mass g max.
Contact	Barrel	min.				Radius max.				Radius		
22	22	—	4,19 3,43	6,02 5,87	11,06 10,83	0,05	0,86 0,74	4,09 3,35	—	1,52 1,27	0,15 0,00	0,13
20	20	2,72	4,83 3,81	4,19 3,94	15,80 15,67	0,05	0,86 0,74	1,75 1,37	1,83 1,68	1,78 1,27	0,25 0,10	0,25
16	16	3,81	7,37 6,35	6,53 6,22	17,55 17,30	0,08	1,22 1,12	2,11 1,75	2,82 2,72	2,54 1,52	0,51 0,25	0,75
12	12	3,81	7,37 6,35	6,53 6,22	17,55 17,30	0,08	1,22 1,12	2,11 1,75	4,01 3,94	—	—	1,50



### 4.3 Marking by colour code

See Table 2.

**Table 2**

Size		Colour identification bands according to ISO 8843	
Contact	Barrel	① Band 1	② Band 2 <sup>a</sup>
22	22	Green	Green
20	20	Red	Red
16	16	Blue	Blue
12	12	Yellow	Yellow

As an alternative, when the 2 (two) band colours are the same, 1 (one) 2 mm minimum width colour band shall be applied.

<sup>a</sup> The width of the band 2 shall be twice the width of the band 1.

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### 4.4 Material, surface treatment

SIST EN 3155-026:2019

— Body material <http://copper.alloy/catalog/standards/sist/cb6675cf-8201-4b3c-aca2-f9a6f904acf8/sist-en-3155-026-2019>

— Surface treatment : gold on appropriate undercoat, thickness of protection see EN 3155-001, selective protection permitted