



# SLOVENSKI STANDARD

## SIST EN 3155-076:2020

01-februar-2020

Nadomešča:

SIST EN 3155-076:2012

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**Aeronavtika - Električni kontakti za uporabo v veznih elementih - 076. del:  
Kontakti, električni, moški, tip A, stisljivi, razred R - Standard za proizvod**

Aerospace series - Electrical contacts used in elements of connection - Part 076:  
Contacts, electrical, male, type A, crimp, class R - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -  
Teil 076: Elektrische Stiftkontakte, Typ A, crimpbar, Klasse R - Produktnorm

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

**Ta slovenski standard je istoveten z: EN 3155-076:2019**

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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 3155-076:2020**

**en,fr,de**

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EUROPEAN STANDARD

**EN 3155-076**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2019

ICS 49.060

Supersedes EN 3155-076:2012

English Version

## Aerospace series - Electrical contacts used in elements of connection - Part 076: Contacts, electrical, male, type A, crimp, class R - Product standard

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 076 : Contacts électriques, mâles, type A, à sertir, classe R - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 076: Elektrische Stiftkontakte, Typ A, crimpbar, Klasse R - 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.

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 3155-076:2019) 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 June 2020, and conflicting national standards shall be withdrawn at the latest by June 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 3155-076:2012.

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 3155-076:2019 (E)****1 Scope**

This document specifies the required characteristics, tests and tooling applicable to male contacts size 22, 20, 16, 12, 8 and 5, type A, crimp, class R, used in elements of connection according to EN 3155-002.

It should be used together with EN 3155-001.

The associated female contacts are defined in EN 3155-077.

**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 3155-077, *Aerospace series — Electrical contacts used in elements of connection — Part 077: Contacts, electrical, female, type A, crimp, class R — Product standard*

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

EN 4644-001, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 001: Technical specification*

EN 4644-012, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 012: Receptacle, size 1, class A, C and E — Product standard*

EN 4644-021, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 021: Plug, size 2, without mounting holes, class A, C and E — Product standard*

EN 4644-024, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 024: Receptacle size 2, class A, C and E — Product standard*

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>

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

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

SAE-AS81969/14, *Installing and removal tools, connector electrical contact, general specification for 2)*

### 3 Terms, definitions and abbreviations

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

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

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

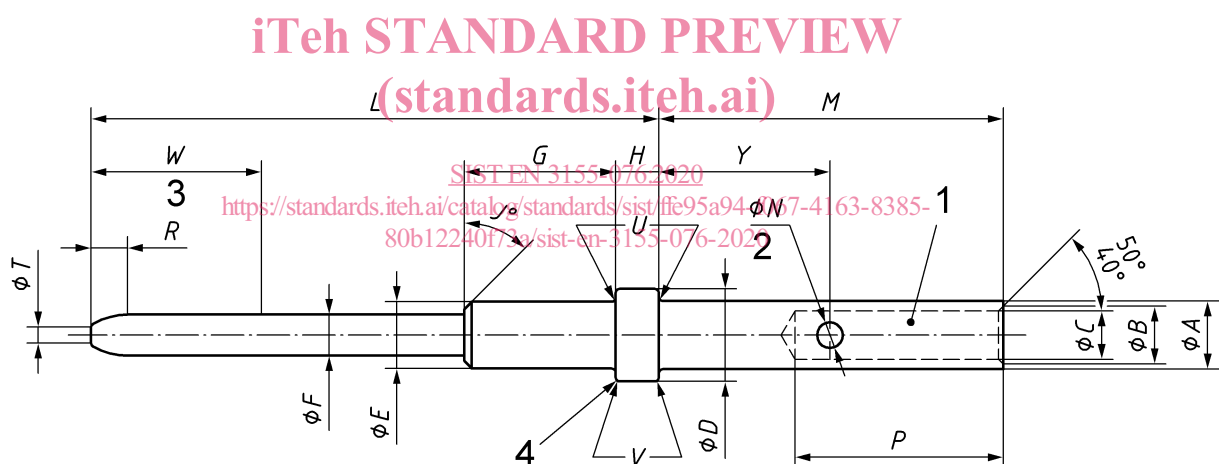
### 4 Requirements

#### 4.1 Specific characteristics

Type A contacts are for general application and class R with a specific operating temperature range from  $-65\text{ }^{\circ}\text{C}$  to  $175\text{ }^{\circ}\text{C}$ .

#### 4.2 Dimensions and mass

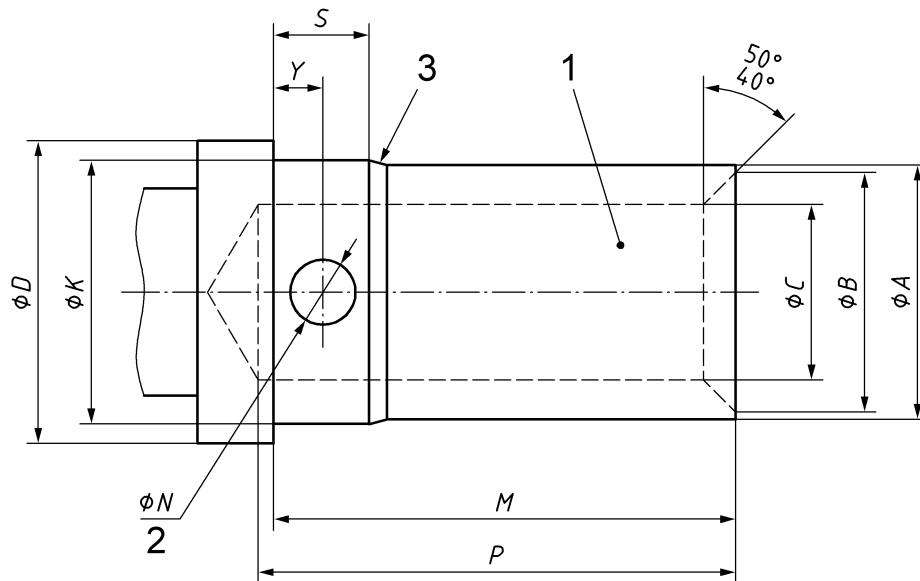
See Figure 1, Figure 2 and Table 1.



#### Key

- 1 Area for colour band marking (see Table 2)
- 2 1 (one) side only
- 3 Active area (see EN 3155-001 for length of selective protection "LSP" definition)
- 4 No sharp angle on front side of the contact shoulder.

**Figure 1**

**Key**

- 1 Area for colour band marking (see Table 2)
- 2 1 (one) side only
- 3 Chamfer or radius

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**Figure 2 — Size 16, 12 and 8 crimp barrel**  
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Table 1

Size		$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing D$	$\varnothing E$	$\varnothing F$	$G$	$H$	$J^\circ$	$\varnothing K$	$L$
Contact	Barrel											
22	22	1,32 1,27	1,17 1,04	0,91 0,86	1,78 1,73	1,27 1,22	0,79 0,74	2,67 2,62	0,86 0,81	50 40	-	10,80 10,64
20	20	1,73 1,68	1,45 1,35	1,17 1,12	2,13 2,08	1,83 1,78	1,04 0,99	2,84 2,74	0,86 0,81	50 40	-	11,30 11,15
16	16	2,62 2,57	2,26 2,06	1,73 1,68	3,35 3,30	2,91 2,86	1,61 1,56	2,84 2,74	1,22 1,17	50 40	2,77 2,72	12,32 12,12
12	12	3,84 3,78	3,63 3,43	2,59 2,49	4,78 4,72	3,86 3,81	2,39 2,34	2,84 2,74	1,22 1,17	50 40	4,01 3,94	12,32 12,12
8	8	6,71 6,65	6,30 6,09	4,70 4,59	8,01 7,95	5,56 5,51	3,62 3,58	6,34 6,08	0,83 0,76	-	7,01 6,95	13,06 12,95
5	8	6,50 6,42	5,65 5,54	4,65 4,57	7,01 6,93	6,38 6,32	4,55 4,49	2,82 2,69	1,19 1,13	50 40	-	12,16 12,04

Size		$M$	$\varnothing N$	$P$	$R$	$S$	$\varnothing T$	$U$ max.	$V$ max.	$Y$	$W$ min.	Mass g
Contact	Barrel											
22	22	5,99 5,79	0,53 0,43	4,09 3,61	0,84 0,65	-	0,20 max.	0,05	0,08	2,95 2,69	4,78	0,17
20	20	4,09 3,89	0,79 0,69	4,70 4,19	1,24 0,99	-	0,51 0,20	0,05	0,08	0,81 0,61	4,95	0,25
16	16	6,50 6,30	1,04 0,94	7,29 6,68	1,27 1,02	1,50 1,30	0,79 0,43	0,08	0,13	0,81 0,61	5,3	0,76
12	12	6,50 6,30	1,04 0,94	7,29 6,68	1,27 1,02	1,50 1,30	1,57 1,19	0,08	0,13	0,81 0,61	5,3	1,60
8	8	12,23 11,95	1,85 1,74	12,95 12,45	1,37 1,17	2,60 2,40	1,88 max.	-	0,15	1,34 1,08	6,03	4,80
5	8	12,12 11,89	1,10 0,89	10,62 10,36	1,60 1,40	-	1,75 1,30	-	0,15	2,50 2,10	5,92	3,90

### 4.3 Marking by colour code

See Table 2.