

# SLOVENSKI STANDARD

## SIST EN 3660-003:2019

01-januar-2019

Nadomešča:  
SIST EN 3660-003:2010

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### Aeronavtika - Dodatki za okrogle in pravokotne električne in optične konektorje - 003. del: Tesnilna matica, tip A - Standard za proizvod

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 003: Grommet nut, style A - Product standard

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 003: Dichtungsmutter, Bauform A - Produktnorm

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 003: Écrou serre-fils, type A - Norme de produit

**Ta slovenski standard je istoveten z: EN 3660-003:2018**

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#### **ICS:**

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

**SIST EN 3660-003:2019**

**en,fr,de**

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EUROPEAN STANDARD

**EN 3660-003**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2018

ICS 49.060

Supersedes EN 3660-003:2009

English Version

## Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 003: Grommet nut, style A - Product standard

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 003 : Écrou serre-fils, type A - Norme de produit

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 003: Dichtungsmutter, Bauform A - Produktnorm

This European Standard was approved by CEN on 11 June 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.

CEN members are the national standards bodies of 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 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 3660-003:2018) 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 May 2019, and conflicting national standards shall be withdrawn at the latest by May 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 3660-003:2009.

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 3660-003:2018 (E)****1 Scope**

This European Standard defines a range of grommet nuts, style A, for use under the following conditions:

Associated electrical connector(s) : EN 3660-002

Temperature range, Class N : – 65 °C to 200 °C

Class W : – 65 °C to 175 °C

Class K : – 65 °C to 260 °C

Class A : – 65 °C to 200 °C

**2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2591-\*, *Aerospace series — Elements of electrical and optical connection — Test methods*

EN 3660-001, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 001: Technical specification*

EN 3660-002, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 002: Index of product standards*

**3 Terms and definitions**

[SIST EN 3660-003:2019](#)

<https://standards.iteh.ai/catalog/standards/sist/57571997-e28d-42ae-84d6-2019-0003-003-003-2019>

For the purposes of this document, the terms and definitions given in EN 3660-001 apply.

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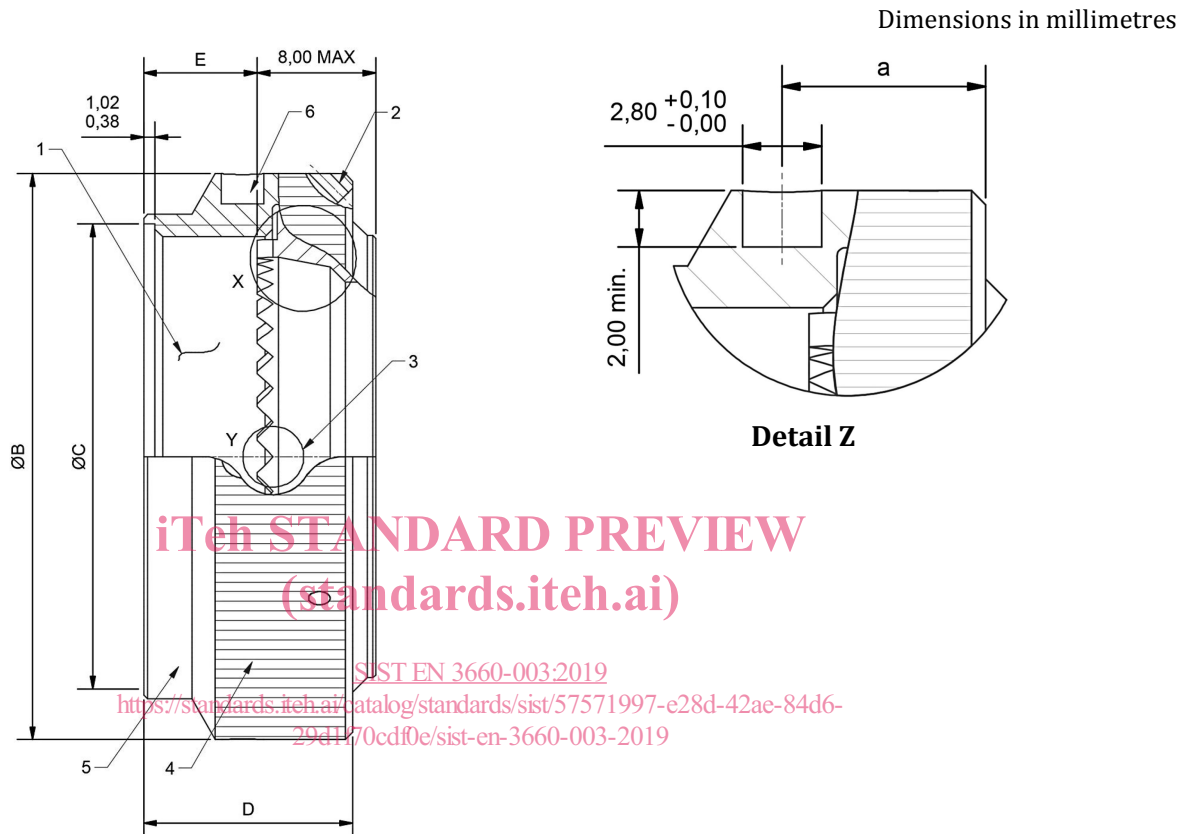
\* All parts quoted in this standard.

## 4 Characteristics

### 4.1 Dimensions and mass

For dimensions and mass, see Figure 1 and Table 1.

For interface dimensions, see 4.2.



#### Key

- 1 Thread *A*
- 2 Three off wire lock holes equi-spaced for 0,8 mm max. diameter wire
- 3 Teeth *N* (see Table 2)
- 4 Knurled, manufacturer's option
- 5 Marking (see Clause 6)
- 6 Four equi-spaced blind holes for torque wrench (see Figure 1, detail Z)

NOTE For details X and Y, see 4.2.2.

<sup>a</sup> The location of blind holes axis can be left to the manufacturer's preference. Location of blind holes is not mandatory.

**Figure 1**

Table 1

Shell size	A Thread Class 2B inches	$\varnothing B$ max. mm	$\varnothing C$ + 0,64 0 mm	D 0 - 1,57 mm	$E^a$ 0 - 0,56 mm	Mass	
						Classes N, A, W, T and Z max. g	Class K
08	0.500-20UNF	19,47	12,74	13,72	7,75	4,77	13,22
10	0.625-24UNEF	22,47	15,88	13,72	7,75	6,24	17,31
12	0.750-20UNEF	25,47	19,05	13,72	7,75	7,15	19,77
14	0.875-20UNEF	28,67	22,23	13,72	7,75	8,84	23,53
16	1.000-20UNEF	31,67	25,40	13,72	7,75	10,18	27,96
18	1.063-18UNEF	34,67	27,00	13,72	7,75	10,48	29,99
20	1.188-18UNEF	37,67	30,18	13,72	7,75	11,78	33,67
22	1.313-18UNEF	40,67	33,35	13,72	7,75	13,05	37,32
24	1.438-18UNEF	44,07	36,53	13,72	7,75	14,47	41,38
28	1.750-18UNS	50,97	44,45	17,30	7,75	24,66	71,54

<sup>a</sup> E dimension is taken when the coupling nut is pulled in forward position.

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## 4.2 Interface dimensions

### 4.2.1 Associated connection

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See EN 3660-002.

### 4.2.2 Front interface

See Figure 2, Figure 3 and Table 2.

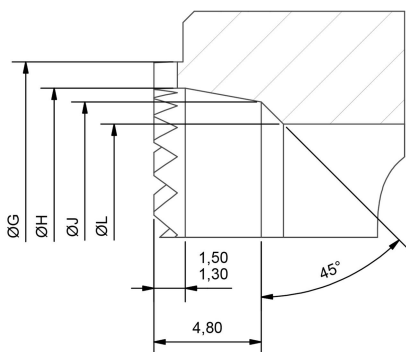


Figure 2 — Detail X

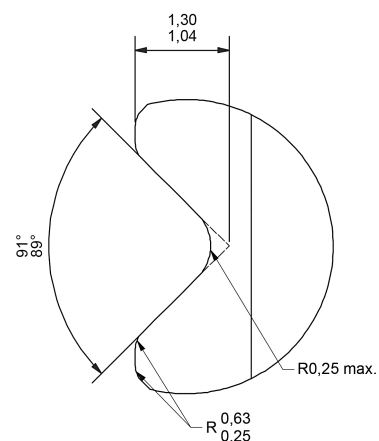


Figure 3 — Detail Y



Table 2

Dimensions in millimetres

Shell size	$\varnothing G$ Ref.	$\varnothing H$ + 0,10 0	$\varnothing J$ + 0,18 0	$\varnothing L$ + 0,18 0	$N$ Number of teeth
08	11,10	9,15	7,92	6,68	12
10	14,53	12,36	11,13	9,35	15
12	17,45	15,30	14,07	12,62	21
14	20,62	18,48	17,25	14,68	24
16	23,80	21,65	20,42	17,73	30
18	25,20	23,08	21,85	19,86	33
20	28,37	26,25	25,02	23,04	36
22	31,55	29,43	28,20	26,21	39
24	34,72	32,60	31,37	29,13	42
28	42,75	38,90	37,67	35,10	54

#### 4.3 Material and finish

Material/Finish	Class N	:	Aluminium/ Electroless nickel plated
Material/Finish	Class W	:	Aluminium/ Olive drab cadmium plated
Material/Finish	Class K	:	Stainless steel/ Passivated
Material/Finish	Class A	:	Aluminium/ Black anodized
Material/Finish	Class T	:	Aluminium (Nickel PTFE plated)
Material/Finish	Class Z	:	Aluminium (Black zinc nickel plated)

#### 4.4 Assembly torque

These torque values are intended for installation use only, see Table 3.