
Aeronavtika - Dodatki za okrogle in pravokotne električne in optične konektorje - 012. del: Tesnilna matica, tip A za EN 3372 - Standard za proizvod

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 012: Grommet nut, style A for EN 3372 - Product standard

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 012: Dichtungsmutter Bauform A für EN 3372 - Produktnorm

Série aérospatiale - Accessoires arrières pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 012 : Ecrou serre-fils, type A pour EN 3372 - Norme de produit

Ta slovenski standard je istoveten z: EN 3660-012:2008

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

**Aerospace series - Cable outlet accessories for circular and
rectangular electrical and optical connectors - Part 012:
Grommet nut, style A for EN 3372 - Product standard**

Série aéronautique - Accessoires arrières pour connecteurs
circulaires et rectangulaires électriques et optiques - Partie
012 : Écrou serre-fils, type A pour EN 3372 - Norme de
produit

Luft- und Raumfahrt - Endgehäuse für elektrische und
optische Rund- und Rechtecksteckverbinder - Teil 012:
Dichtungsmutter, Bauform A für EN 3372 - Produktnorm

This European Standard was approved by CEN on 19 January 2008.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 3660-012:2008) 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of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This product standard defines a range of grommet nut, 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

2 Normative references

The following referenced documents are indispensable for the application 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 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*

AS85049, *Connector accessories, electrical general specification for*¹⁾

3 Terms and definitions

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

4 Characteristics

4.1 Dimensions and mass

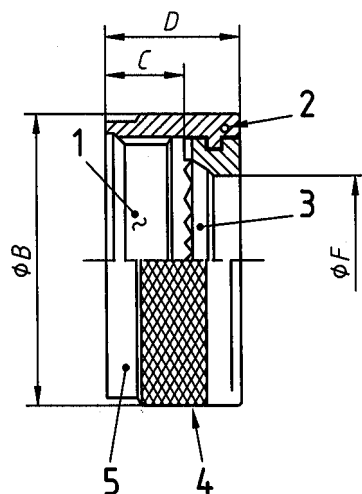
For dimensions and mass, see Figure 1 and Table 1.

For interface dimensions, see 4.2.

* All its parts quoted.

1) Published by: Society of Automotive Engineers, Inc. (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001.

All dimensions in millimetres



Key

- | | |
|---|---------------------------------------|
| 1 Thread <i>A</i> | 3 Teeth <i>N</i> (see Tables 2 and 3) |
| 2 Three off wire lock holes equi-spaced for 0,8 mm max. diameter wire | 4 Knurled, manufacturer's option |
| | 5 Marking (see Clause 6) |

Figure 1
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Table 1

Shell size	Thread Class 2B	ϕB max. mm	C^a $\pm 0,38$ mm	D max. mm	ϕF max. mm	Mass max. Classes N and W g
	inches	mm	mm	mm	mm	
08	0.4375-28UNEF	16	6,29	13,1	6,9	3,5
10	0.5625-24UNEF	19			10,1	4,0
12	0.6875-24UNEF	22			13,0	5,0
14	0.8125-20UNEF	25			16,2	6,8
16	0.9375-20UNEF	29			19,3	7,5
18	1.0625-18UNEF	31			21,6	8,0
20	1.1875-18UNEF	35			24,8	9,0
22	1.3125-18UNEF	38			28,1	9,5
24	1.4375-18UNEF	41			31,1	11,0

^a "C" dimension is taken when the coupling nut is pulled in forward position.

4.2 Interface dimensions

4.2.1 Associated connector

See EN 3660-002.

4.2.2 Standard AS85049 interface

See Figure 2, Figure 3 and Table 2.

All dimensions in millimetres

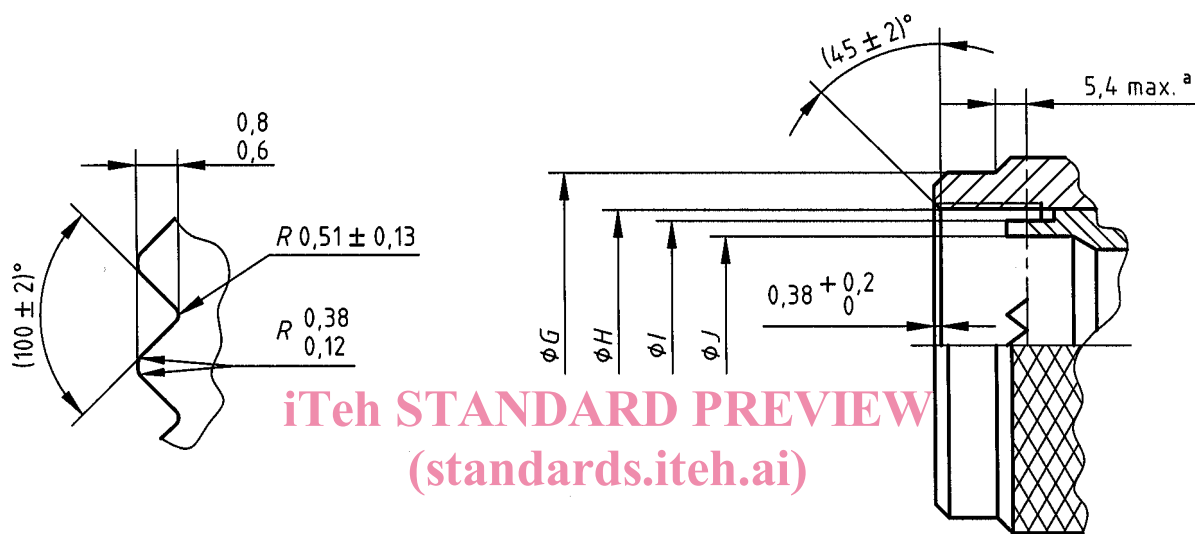


Figure 2

Figure 3

Table 2

Shell size	Ø G	Ø H	Ø I		Ø J		N Number of teeth
	max. mm	max. mm	min.	max.	min.	max.	
08	15,20	10,26	9,7	10,01	7,59	8,80	12
10	18,40	13,36	12,9	13,16	10,85	12,00	16
12	21,60	16,54	15,8	16,33	13,79	14,94	20
14	24,80	19,51	19,0	19,30	16,92	18,06	24
16	28,00	22,68	22,1	22,48	20,09	21,23	28
18	31,00	25,58	24,9	25,30	22,78	23,93	32
20	34,20	28,88	28,0	28,68	25,96	27,10	36
22	37,40	31,93	31,2	31,65	29,13	30,26	40
24	40,60	35,10	34,4	34,82	32,21	33,34	44

4.3 Material and finish

Material/Finish: Class N : Aluminium/Electroless nickel

Material/Finish: Class W : Aluminium/Olive drab cadmium plate

4.4 Assembly torque

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

Table 3

Shell size	Torque Nm $\pm 0,5$
08	4,5
10	
12	
14	
16	
18	
20	9,0
22	
24	

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4.5 Coupling thread strength torques

These torque values are for test purposes, see EN 2591-420 and Table 4.

Table 4

Shell size	Torque Nm $\pm 0,5$
08	5,5
10	
12	
14	
16	
18	
20	11,0
22	
24	

4.6 Tests

Test details to be in accordance with Table 5 and EN 3660-001.

Qualification to be in accordance with EN 3660-001.