

SLOVENSKI STANDARD

SIST EN 3660-024:2008

01-julij-2008

Aeronavtika - Dodatki za okrogle in pravokotne električne in optične konektorje - 024. del: Tesnilna matica, tip A, sestavljena - Standard za proizvod

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 024: Grommet nut, style A, composite - Product standard

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 024: Mutter, Bauform A, Composite - Produktnorm

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 024 : Ecrou serre-fils, type A composite - Norme de produit

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ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 3660-024:2008

en

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English Version

**Aerospace series - Cable outlet accessories for circular and
rectangular electrical and optical connectors - Part 024:
Grommet nut, style A, composite - Product standard**

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

Luft- und Raumfahrt - Endgehäuse für elektrische und
optische Rund- und Rechtecksteckverbinder - Teil 024:
Mutter, Bauform A, Composite - Produktnorm

This European Standard was approved by CEN on 12 January 2008.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 3660-024:2008) 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 nuts, style A, composite, for use under the following conditions:

Associated electrical connector(s) : EN 3660-002
Temperature range, Class P : – 55 °C to 200 °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.*

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3 Terms and definitions

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

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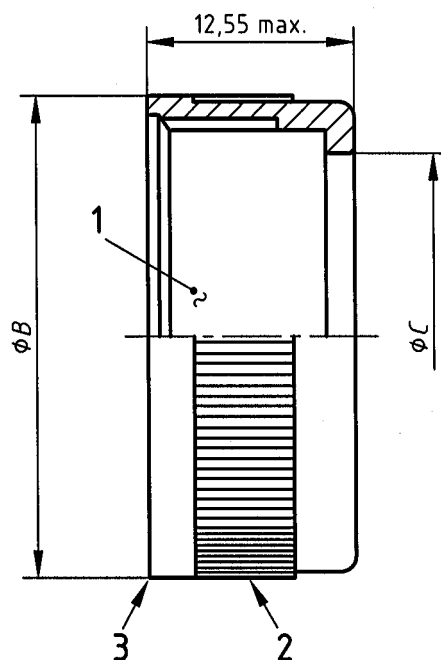
4 Characteristics

4.1 Dimensions and mass

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

* All its parts quoted.

All dimensions in millimetres

**Key**

- 1 Thread *A*
- 2 Knurled, manufacturer's option
- 3 Marking (see Clause 6)

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Table 1

Shell size	<i>A</i> Thread Class 2B inches	Ø <i>B</i> max. mm	Ø <i>C</i> + 0,25 0 mm	Mass max. g
08	0.500-20UNEF	15,55	10,04	1,7
10	0.625-24UNEF	18,52	12,70	1,9
12	0.750-24UNEF	21,67	16,16	2,2
14	0.875-20UNEF	24,87	18,04	2,6
16	1.000-20UNEF	28,13	21,21	3,0
18	1.0625-18UNEF	30,30	23,22	3,2
20	1.1875-18UNEF	33,48	26,39	3,4
22	1.3125-18UNEF	36,65	29,57	3,8
24	1.4375-18UNEF	39,83	32,49	4,1

4.2 Material and finish

Material Class P : Composite, natural colour, unplated

4.3 Assembly torque

These torque values are intended for installation use only, see Table 2.

Table 2

Shell size	Torque Nm max.
08	2,2
10	2,8
12	3,4
14	
16	3,9
18	5,0
20	
22	9,0
24	

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4.4 Coupling thread strength torques

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These torque values are for test purposes, see EN 2591-420 and Table 3.

Table 3

Shell size	Torque Nm max.
08	3,0
10	3,5
12	4,5
14	
16	5,0
18	6,5
20	
22	11,5
24	

4.5 Tests

Test details to be in accordance with Table 4 and EN 3660-001.

Qualification to be in accordance with EN 3660-001.

Table 4

EN 2591 Test No.	Title	Not applicable	Applicable see EN 3660-001	Particulars
101	Visual examination		X	
102	Examination of dimensions and mass		X	See 4.1.
205	Housing (shell) electrical continuity	X		
212	Surface transfer impedance (from 100 MHz to 1 GHz) ^a	X		
301	Endurance at temperature		X	Method B. Temperature: 200 °C Duration: 1 000 h
305	Rapid change of temperature	X		
306	Mould growth		X	See EN 3660-001.
307	Salt mist	X		
308	Sand and dust	X		
314	Immersion at low air pressure	X		
315	Fluid resistance		X	
316	Ozone resistance		X	
317	Flammability		X	Method A on standard test specimen not on product
318	Fire-resistance	X		
402	Shock	X		
403	Sinusoidal and random vibration	X		
406	Mechanical endurance		X	30 cycles
408	Mating and unmating forces	X		
420	Mechanical strength of rear accessories		X	Phase D and Table 3
422	Locking wire hole strength	X		
513	Magnetic permeability	X		
515	Hydrolytic stability		X	

^a 1 GHz to 10 GHz under consideration.