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ACE/006 Aerospace avionic electrical and fibre optic technology

Interested committees:

Title: Draft BS EN 3660-064 Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 064 Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking for EN 2997 and EN 3646 - Product standard

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Introduction

This draft standard is based on European discussions in which the UK has taken an active part. Your comments on this draft are welcome and will assist in the preparation of the consequent British Standard. Comment is particularly welcome on national, legislative or similar deviations that may be necessary.

Even if this draft standard is not approved by the UK, if it receives the necessary support in Europe, the UK will be obliged to publish the official English Language text unchanged as a British Standard and to withdraw any conflicting standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with reasons) or positive vote on this draft.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	(7)
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/ Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

ASD/TC

Date: 02-2015

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ASD/TC

Secretariat: ASD

Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 064: Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking for EN 2997 and EN 3646 — Product standard.

Comment [PL1]: EN4067 updated to EN3646 in line with EN3660 -002

Luft- und Raumfahrt — Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder — Teil 064: Endgehäuse, Bauform K, gerade, für wärmeschrumpfende Bauteile, Schirmanschluß, abgedichtet, selbstsichernd für EN 2997 und EN 3646 — Produktnorm

Série aéronautique — Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques — Partie 064 : Raccord type K, droit, blindé, étanche, pour manchon thermorétractable, auto-freiné pour EN 2997 et EN 3646 — Norme de produit

ICS: 49.060

Descriptors: Aerospace industry, aerospace equipment, element of electrical connection, electrical contact, characteristics, test, quality assurance, marking

Document type: European Standard
Document subtype:
Document stage: Formal Vote
Document language: E

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Foreword

This document (EN 3660-064:2012) 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 document is currently submitted to the Formal Vote.

1. Scope

This product standard defines a range of cable outlets, style K, straight, shielded, sealed, self locking (anti-rotational) for heat shrinkable boot, and / or metallic band under the following conditions:

The mating connectors are listed in EN 3660-002.

~~Please note: CLASS N in EN 3660-001 cross refers to CLASS F in EN 3660-064.~~

Temperature range,	Class N	: – 65 °C to 200 °C ~~(SEE NOTE ABOVE)~~
	Class K	: – 65 °C to 260 °C
	~~Class KE~~	~~: – 65 °C to 260 °C~~
	Class W	: – 65 °C to 175 °C
	Class T	: – 65 °C to 175 °C (NICKEL PTFE PLATING)
	Class Z	: – 65 °C to 175 °C (ZINC NICKEL PLATING).

Comment [PL2]: Note on cross reference to Class F removed

Comment [PL3]: Class F reverted back to Class N in line with action from London D2S3 meeting

Comment [PL4]: Class K updated to 260°C in line with action from London D2S3 meeting

Comment [PL5]: Class KE removed in line with action from London D2S3 meeting

Associated electrical accessories : EN 3660-033 Metallic band (for shield termination).

These cable outlets are designed for termination of overall shielding braid and / or individual cable shields. They accommodate/permit the termination of heat shrinkable boots.

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 2591-100*, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General.*

EN 2997 (series), *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak.*

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.*

EN 3660-033, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 033: Metallic band — Product standard.* ¹⁾

AS85049A, *Connector accessories, electrical general specification for.* ²⁾

DIN 82, *Knurling.*

A-A-59569 *Braid Specification*

* All its parts quoted in this standard.

1) In preparation at the date of publication of this standard.

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

3. Terms and definitions

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

(Self locking / Anti Rotational definition) A self locking or anti rotational mechanism provides a nut rotation with moderate torque in the mated direction and provides a greater torque in the unmated direction.

4. Characteristics

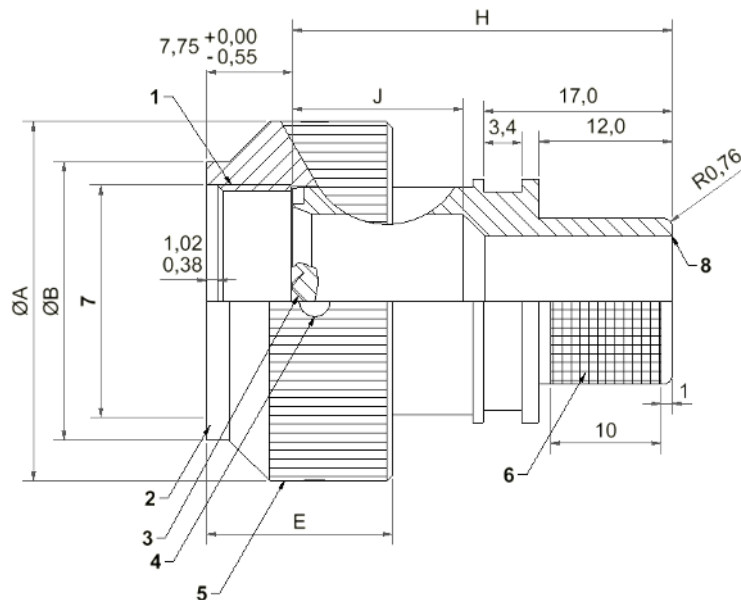
4.1 Dimensions and mass

For dimensions and mass, see Figure 1 and Table 1 to Table 4.

For cable entry dimensions, see 4.2.

All dimensions are in millimetres

Figure 1



1. Thread C.
2. Marking.
3. Number of teeth N.
4. 4 Tooling holes spaced 90° apart. Ø2,60, depth ,1,27.
5. Straight knurl. Pitch manufacturer's option.
6. RKV 08 DIN 82. Figure 2. (Please note there may be crossover dependent on diameter and pitch).
7. Clearance on thread C
8. Break edge
9. Cable Outlets may be manufactured as cast, fabricated or machined (manufactures option)
10. No sharp edges / burrs permissible on internal or external surfaces / joints. Surface finish of $\sqrt{1,6\mu\text{m}}$ max on all internal surfaces