



BSI Standards Publication

Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors

Part 062: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking — Product standard

National foreword

This British Standard is the UK implementation of EN 3660-062:2022. It supersedes BS EN 3660-062:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Amendments/corrigenda issued since publication

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English Version

**Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 062:
Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking - Product standard**

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 062 : Raccord, type K, coudé à 90°, blindé, étanche, pour manchon thermorétractable, à freinage interne - Norme de produit

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 062: Endgehäuse, Bauform K, 90°, für wärmeschrumpfende Bauteile, Schirmanschluß, abgedichtet, selbstsichernd - Produktnorm

This European Standard was approved by CEN on 26 August 2019.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 3660-062:2022) 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of an identical text or by endorsement, at the latest by November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.

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 3660-062:2016.

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, 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.

1 Scope

This product standard defines a range of cable outlets, style K, 90°, shielded, sealed, self-locking (anti-rotational), for heat shrinkable boot, and/ or metallic bands for use under the following conditions:

The mating connectors are listed in EN 3660-002.

Temperature range, Class N	: – 65 °C to 200 °C;
Class K	: – 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 (Black zinc nickel plating).

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 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 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*

EN 3660-033, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 033: Stainless steel banding band, style Z, for attachment of individual and/or overall screens to cable outlets — Product standard*

EN 3909, *Aerospace series — Test fluids and test methods for electrical and optical components and sub-assemblies*

EN 60529, *Degrees of protection provided by enclosures (code IP)*

DIN 82, *Knurls*

*) All its parts quoted in this document.

3 Terms and definitions

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

3.1

self-locking/anti rotational

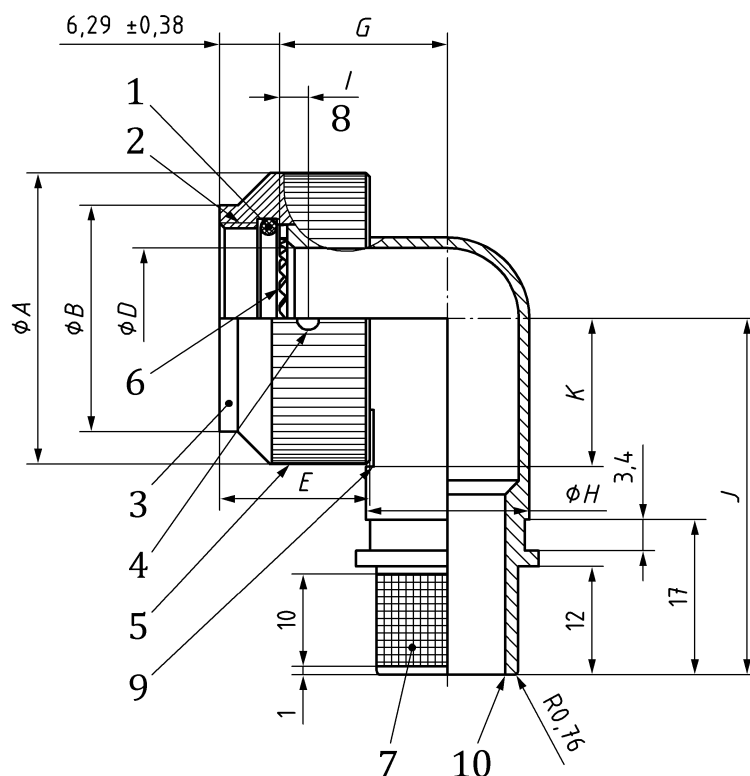
a self-locking or anti rotational mechanism provides a nut rotation with moderate torque in the mated direction and provides a greater torque in the unmated direction

4 Characteristics

4.1 Dimensions and mass

For dimensions and mass, see Figures 1 to Figure 3 and Table 1, Table 2 to Table 5.

For cable entry dimensions, see 4.2.



Key

- 1) O-Ring
- 2) Thread *C*
- 3) Marking
- 4) Four (4) tooling holes spaced 90° apart. Ø 2,60, depth, 1,27
- 5) Straight knurl. Pitch manufacturer's option
- 6) Number of teeth *N*
- 7) RKV 08 DIN 82. Figure 2. (Please note there may be crossover dependent on diameter and pitch)
- 8) Minimum penetration of Ø *D* from the front of serrations
- 9) Optional clearance feature, see Table 2.
- 10) Break edge

NOTE 1 Cable outlets may be manufactured as cast, fabricated or machined (manufactures option).

NOTE 2 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.

NOTE 3 Reference clearance feature (9) when nut is in the uncoupled position the nut shall not contact the shell body.

NOTE 4 Valley of start of tooth to be at vertical centre line of accessory at position shown:

- within $\pm 3^\circ$ for shell sizes 09-13;
- within $\pm 2^\circ$ for shell sizes 15-19;
- within $\pm 1^\circ$ for shell sizes 21 and larger.

Figure 1 — Cable outlet