
Aeronavtika - Dodatki za okrogle in pravokotne električne in optične konektorje - 034. del: Spominski kovinski obročki, tip Z, za pritrditev zaslonov - Standard za proizvod

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 034: Memory metal rings for the attachment of screens - Product standard

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 034: Formgedächtnismetallring - Produktnorm

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 034: Bague métallique à mémoire de forme pour reprise de blindage - Norme de produit

Ta slovenski standard je istoveten z: EN 3660-034:2017

ICS:

31.220.99	Druge elektromehanske komponente	Other electromechanical components
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

SIST EN 3660-034:2017**en,fr,de**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 3660-034:2017](https://standards.iteh.ai/catalog/standards/sist/6606be24-cf84-41c6-a248-222237a5c027/sist-en-3660-034-2017)

<https://standards.iteh.ai/catalog/standards/sist/6606be24-cf84-41c6-a248-222237a5c027/sist-en-3660-034-2017>

EUROPEAN STANDARD

EN 3660-034

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2017

ICS 49.060

English Version

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 034: Memory metal rings, style Z, for the attachment of screens - Product standard

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 034 : Bague métallique à mémoire de forme, type Z, pour reprise de blindage - Norme de produit

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 034: Formgedächtnismetallring, Bauform Z, zum Anschluss von Schirmgeflecht - Produktnorm

This European Standard was approved by CEN on 23 January 2017.

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: Avenue Marnix 17, B-1000 Brussels

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Characteristics	5
5	Designation	7
6	Marking	8
7	Storage	8
8	Technical specification	8

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 3660-034:2017](https://standards.iteh.ai/catalog/standards/sist/6606be24-cf84-41c6-a248-222237a5c027/sist-en-3660-034-2017)

<https://standards.iteh.ai/catalog/standards/sist/6606be24-cf84-41c6-a248-222237a5c027/sist-en-3660-034-2017>

European foreword

This document (EN 3660-034:2017) 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 European 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 March 2018, and conflicting national standards shall be withdrawn at the latest by March 2018.

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.

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.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 3660-034:2017](https://standards.iteh.ai/catalog/standards/sist/6606be24-cf84-41c6-a248-222237a5c027/sist-en-3660-034-2017)

<https://standards.iteh.ai/catalog/standards/sist/6606be24-cf84-41c6-a248-222237a5c027/sist-en-3660-034-2017>

EN 3660-034:2017 (E)**1 Scope**

This European Standard defines a range of memory metal rings, style Z, for terminating cable screens to cable outlets.

The mating connectors and applicable cable outlets are listed in EN 3660-002.

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 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 3646 (series), *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous*

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 3660-031, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 031: Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed — Product standard*

EN 3660-032, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 032: Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed — Product standard*

EN 3660-035, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 035: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed — Product standard*

EN 3660-066, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 066: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed — Product standard*

3 Terms and definitions

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

4 Characteristics

4.1 Materials

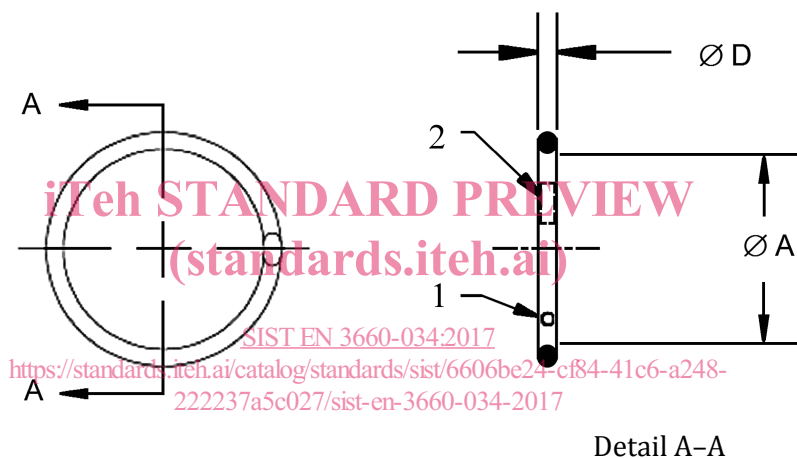
4.1.1 The rings shall be manufactured from a shape-memory alloy consisting essentially of nickel and titanium.

4.1.2 The thermochromic paint applied as two stripes shall change colour when the appropriate installation temperature has been reached.

4.1.3 An insulating layer shall be applied to the inner surface to facilitate the use of a resistance heating installation tool.

4.2 Dimensions

See Figure 1 and Table 1.



Detail A-A

Key

- 1 Ring type designation (on the outer diameter surface)
 - AI rings have no marking at this location
 - BI rings are marked with a red dot
 - CI rings are marked with a blue dot
- 2 The outside surface is marked with two thermochromics indicators approximately at 180° apart in relation to each other. The marking position in relation to weld joint is not specified nor required. The shape and the indicator type may vary by manufacturers

Figure 1

Table 1 — Dimensions

Dimensions in millimetres

Size code and designation (see Figure 1)	$\varnothing A$		$\varnothing D$
	As supplied min.	Free recovered max.	
04AI	10,08	9,63	1,85 ± 0,13
04BI	10,57	10,11	1,85 ± 0,13
05AI	11,68	11,18	1,85 ± 0,13
05BI	12,17	11,63	1,85 ± 0,13
06AI	13,28	12,68	1,85 ± 0,13
06BI	13,92	13,28	1,85 ± 0,13
07AI	14,88	14,20	1,85 ± 0,13
07BI	15,39	14,68	1,85 ± 0,13
08AI	16,51	15,75	1,85 ± 0,13
08BI	17,02	16,23	1,85 ± 0,13
10AI	19,86	18,90	1,85 ± 0,13
10BI	20,37	19,38	1,85 ± 0,13
10CI	21,08	20,09	1,85 ± 0,13
12AI	23,17	22,07	1,85 ± 0,13
12BI	23,65	22,50	1,85 ± 0,13
12CI	24,38	23,17	1,85 ± 0,13
14AI	26,42	25,10	1,85 ± 0,13
14BI	29,92	25,58	1,85 ± 0,13
14CI	27,66	26,24	1,85 ± 0,13
16AI	29,74	28,22	1,85 ± 0,13
16BI	30,25	28,68	1,85 ± 0,13
16CI	30,89	29,31	1,85 ± 0,13
18AI	33,05	31,34	1,85 ± 0,13
18BI	33,53	31,80	1,85 ± 0,13
20AI	36,32	34,47	1,85 ± 0,13
20BI	36,83	34,95	1,85 ± 0,13
22AI	39,19	37,16	2,24 ± 0,18
22BI	39,65	37,62	2,24 ± 0,18

NOTE The designation indicates the type of braid which the ring is designed to terminate. Details are given in Table 2.

4.3 Test

4.3.1 In accordance with the applicable cable outlet accessories for memory metal rings

These are: EN 3660-031

EN 3660-032

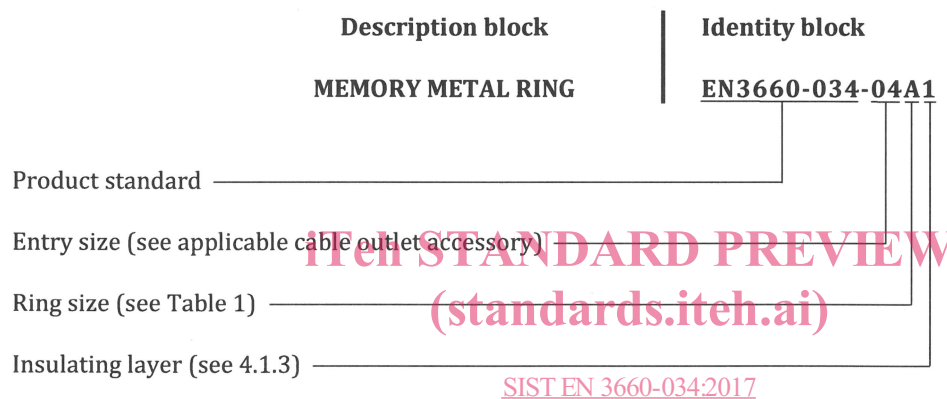
EN 3660-035

EN 3660-066

Qualification to be in accordance with EN 3660-001.

5 Designation

EXAMPLE



NOTE 1 No gaps are required between sections in the part number when printed.

NOTE 2 If necessary, the code I9005 shall be placed between the description block and the identity block.

Table 2 — Memory ring designators

Memory Ring Designator	Diameter of individual strands of screen ^a
AI ^b	Single layer screen 0,13 – 0,16
BI	Single layer screen 0,20 – 0,25
BI	Double layer screen 0,13 – 0,16
CI	Double layer screen 0,20 – 0,30

^a It may be necessary when using a double layer screen with entry sizes 04 to 07 that an A ring will be required if the diameter of the braid over the cable outlet accessory is smaller than the fully recovered diameter of the B ring.

^b The last character in the memory ring designator is a letter “I” not a number “1”.