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**Aeronavtika - Dodatki za okrogle in pravokotne električne in optične konektorje - 033. del: Nerjavni jekleni ovijalni pas, vrsta Z, za pritrjevanje posameznih in/ali celotnih zaslonov na kabske izhode - Standard za proizvod**

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

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 033: Edelstahlspannband, Bauform Z, zum Anschluss von Einzel- und/oder Gesamtschirmen an Endgehäusen - Produktstandard

[SIST EN 3660-033:2020](https://standards.iteh.ai/catalog/standards/sist/2e66dc66-d5ca-4f9-8ae8-ef3abc8ade-4d/sist-en-3660-033-2020)

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 033 : Bandes métalliques, style Z, pour fixation et/ou des blindages aux extrémités des câbles - Norme de produit

**Ta slovenski standard je istoveten z: EN 3660-033:2019**

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**ICS:**

|           |  |  |
|-----------|--|--|
| 31.220.10 | Vtiči in vtičnice, konektorji                      | Plug-and-socket devices.<br>Connectors   |
| 49.060    | Letalska in vesoljska električna oprema in sistemi | Aerospace electric equipment and systems |

**SIST EN 3660-033:2020**

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EUROPEAN STANDARD

EN 3660-033

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2019

ICS 49.060

English Version

**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**

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 033 : Bande de cerclage en acier inoxydable, type Z, pour fixation des blindages individuels et/ou complets aux raccords - Norme de produit

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 033: Edelstahlspannband, Bauform Z, zum Anschluss von Einzel- und/oder Gesamtschirmen an Endgehäusen - Produktstandard

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

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 3660-033:2019) 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 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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.

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**EN 3660-033:2019 (E)****1 Scope**

This document defines a banding band, style Z, for terminating individual and/or overall cable screens to cable outlets. The bands delivered in flat condition F (see Clause 6) which need to be double wrapped prior to their installation. The bands delivered in condition C (see Clause 6) are factory pre-double wrapped and ready for installation.

**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 2591-100 (all parts), *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General*

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 3660-038, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 038: Manual installation tool, style Z, for installation of stainless steel shield termination band EN 3660-033, to cable outlet accessories — Product standard*

EN 3660-063, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 063: Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking for EN 3645 — Product standard*

A-A-59569, *Braid, wire (copper, tin-coated, silver-coated, or nickel-coated, tubular or flat)* <sup>1)</sup>

SAE AS 85049, *Connector accessories, Electrical General Specification For* <sup>2)</sup>

SAE AMS 2700, *Passivation of Corrosion Resistant Steels* <sup>2)</sup>

ASTM A 240, *Standard Specification for, stainless and heat-resisting Chromium-Nickel Steel Plate, Sheet and Strip for Pressure Vessels for General Applications* <sup>3)</sup>

ASTM A 967, *Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts* <sup>3)</sup>

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1) Published by: NASA Electronic Parts and Packaging Program (NEPP), <https://nepp.nasa.gov/>

2) Published by: National (US) Society of Automotive Engineers (SAE), <http://www.sae.org/>

3) Published by: International standards (ASTM), <https://www.astm.org/>

### 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/>

### 4 Characteristics

#### 4.1 Materials

The bands shall be manufactured from stainless steel, as specified in ASTM A 240/A 240M (S30400) and passivated in accordance with SAE AMS 2700 or ASTM A 967, or equivalent European standards.

The tinned copper braid used for testing shall be according to A-A-59569C with a 90 % coverage. The following sizes shall be used: A-A-59569 R30N0437 together with cable outlet EN 3660-063K-15AC and A-A-59569 R30N0875 together with cable outlet EN 3660-063K-19AH. Length of braid 250 mm to 260 mm.

#### 4.2 Dimensions and mass

See Figure 1 and Figure 2 and Table 1.

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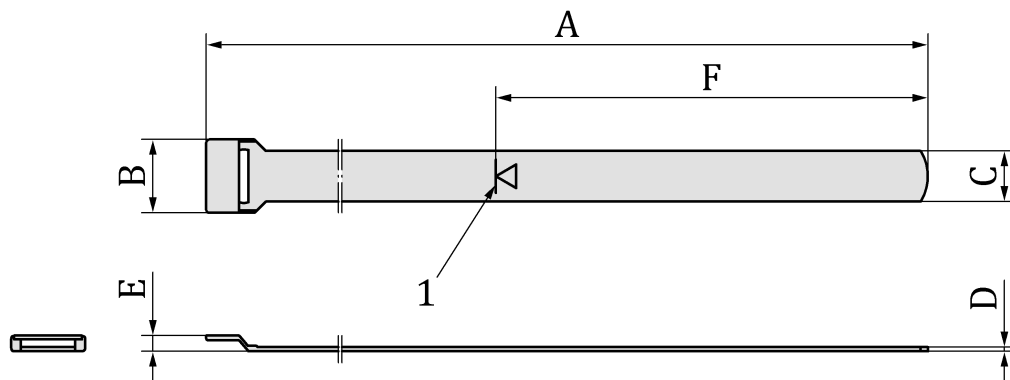
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EN 3660-033:2019 (E)

### 4.3 Delivery condition

See Figure 1 and Figure 2.



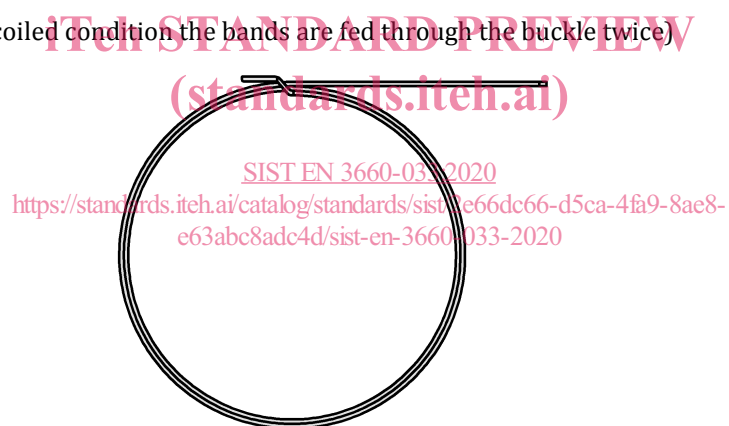
a) Flat condition

#### Key

1 Tail length indicator

F = flat

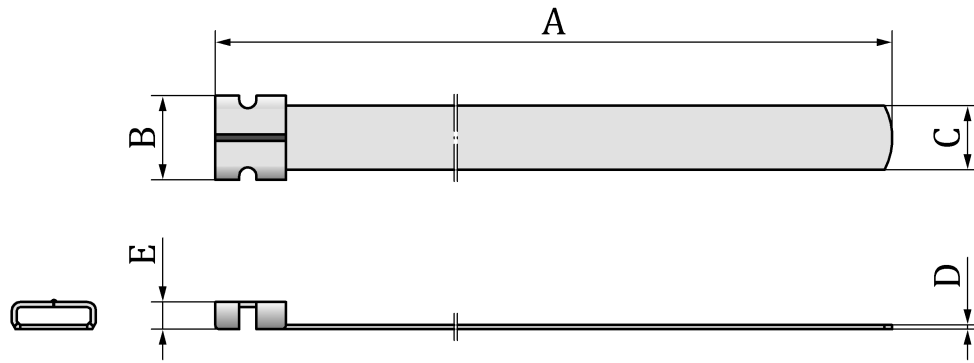
C = pre-coiled (In the pre-coiled condition the bands are fed through the buckle twice)



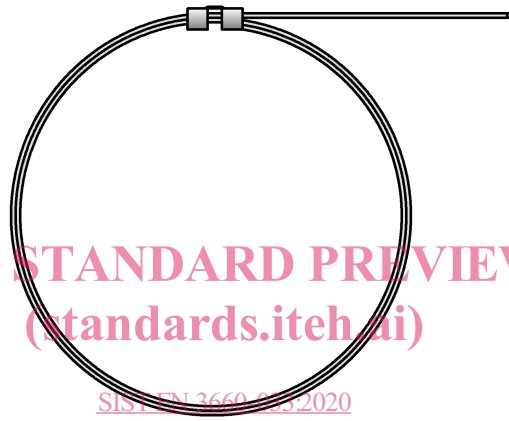
b) Pre-coiled condition

Figure 1 — Variants A, B, C and D





a) Flat condition



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b) Pre-coiled condition

Figure 2 — Variants E and F

Table 1 — Dimensions and mass

| Variants | <i>A</i>   | <i>B</i>         | <i>C</i>         | <i>D</i>         | <i>E</i>         | <i>F</i>  | Cable<br>accommodation $\varnothing$<br>max.<br>mm | Mass<br>g/100 parts<br>max. |
|----------|------------|------------------|------------------|------------------|------------------|-----------|--|-----------------------------|
|          | min.<br>mm | $\pm 0,76$<br>mm | $\pm 0,25$<br>mm | $\pm 0,08$<br>mm | $\pm 0,38$<br>mm | Ref<br>mm |  |                             |
| A        | 361,00     | 8,89             | 6,22             | 0,48             | 1,88             | 52,00     | 47,80  | 900                         |
| B        | 442,00     | 8,89             | 6,22             | 0,48             | 1,88             | 52,00     | 63,50  | 1 150                       |
| C        | 205,00     | 4,95             | 2,92             | 0,38             | 1,35             | 52,00     | 22,40  | 185                         |
| D        | 361,00     | 4,95             | 2,92             | 0,38             | 1,35             | 52,00     | 47,80  | 350                         |
| E        | 361,00     | 8,33             | 6,22             | 0,48             | 2,54             | -         | 47,80  | 900                         |
| F        | 239,00     | 5,03             | 3,00             | 0,38             | 2,03             | -         | 28,00  | 325                         |