
Aeronavtika - Kabli, električni, za splošne namene, z vodniki iz aluminija ali pobakrenega aluminija - 002. del: Splošno

Aerospace series - Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium - Part 002: General

Luft- und Raumfahrt - Elektrische Leitungen, zur allgemeinen Verwendung, mit Leitern aus Aluminium oder kupferbeschichtetem Aluminium - Teil 002: Allgemeines

Série aérospatiale - Câbles électriques, d'usage général, avec conducteurs en aluminium ou en aluminium chemisé cuivre - Partie 002 : Généralités

Ta slovenski standard je istoveten z: EN 4681-002:2024

SIST EN 4681-002:2025

<https://standards.sist.net/catalog/standards/sist/608974ba-228c-4b7b-b660-3264f796d1d1/sist-en-4681-002-2025>

ICS:

29.060.20	Kabli	Cables
49.025.20	Aluminij	Aluminium
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

SIST EN 4681-002:2025**en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4681-002

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ICS 49.060

Supersedes EN 4681-002:2012

English Version

Aerospace series - Cables, electric, general purpose, with
conductors in aluminium or copper-clad aluminium - Part
002: General

Série aérospatiale - Câbles électriques, d'usage général,
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allgemeinen Verwendung, mit Leitern aus Aluminium
oder kupferbeschichtetem Aluminium - Teil 002:
Allgemeines

This European Standard was approved by CEN on 2 September 2024.

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.

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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 4681-002:2024) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, 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 June 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

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 4681-002:2012.

The main changes with respect to the previous edition are as follows:

- EN 4681-002 (P1), 10/2012 — Update of Figure 1 and Table 6 to standardize copper clad aluminium wire series requirements based on users specifications.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this document: 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, Türkiye and the United Kingdom.

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EN 4681-002:2024 (E)**1 Scope**

This document specifies the list of product standards and common characteristics of electrical cables for general purpose with conductors in aluminium or copper-clad aluminium, intended for installation in aircraft electrical systems.

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 3475-100, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General*

EN 3719,¹ *Aerospace series — Aluminium or aluminium alloy conductors for electrical cables — Product standard*

EN 4651, *Aerospace series — Copper-clad aluminium alloy conductors for electrical cables — Product standard*

EN 4681-001, *Aerospace series — Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium — Part 001: Technical specification*

EN 4681-003, *Aerospace series — Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium — Part 003: AD family, single, UV laser printable — Product standard*

EN 4681-004, *Aerospace series — Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium — Part 004: ADA family, single and multicore assembly — Product standard*

EN 4681-005, *Aerospace series — Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium — Part 005: AZ family, single, for use in low pressure atmosphere — Product standard*

EN 4681-006, *Aerospace series — Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium — Part 006: AZA family, single and multicore assembly, for use in low pressure atmosphere — Product standard*

ISO 2574, *Aircraft — Electrical cables — Identification marking*

3 Terms, definitions and symbols

For the purposes of this document, the terms, definitions and symbols given in EN 3475-100 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

¹ Published as ASD-STAN prEN at the date of publication of this document, available at: <https://www.asd-stan.org/>.