

Aerospace series - Cables, electrical, for general purpose, single and multicore assembly - XLETFE
Family - Jacketed or screened and jacketed - Part 002:
Genera

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 4612-002:2019 sisaldab Euroopa standardi EN 4612-002:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 4612-002:2019 consists of the English text of the European standard EN 4612-002:2019.
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EUROPEAN STANDARD

EN 4612-002

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 4612-002:2011

English Version

**Aerospace series - Cables, electrical, for general purpose,
single and multicore assembly - XLETFE Family - Jacketed
or screened and jacketed - Part 002: Genera**

Série aérospatiale - Câbles, électriques, d'usage
général, mono et multiconducteurs - Famille XLETFE -
Gainés ou blindés et gainés - Partie 002 : Généralités

Luft- und Raumfahrt - Ein- und mehradrige elektrische
Leitungen für allgemeine Verwendung - XLETFE
Familie - mit Mantel oder geschirmt und Mantel - Teil
002: Allgemeines

This European Standard was approved by CEN on 5 May 2019.

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

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European foreword

This document (EN 4612-002:2019) 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 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 February 2020, and conflicting national standards shall be withdrawn at the latest by February 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.

This document supersedes EN 4612-002:2011.

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1 Scope

This document specifies the characteristics of UV laser printable jacket, tin plated copper conductor, electrical cables Crosslinked Ethylene Tetra Fluoro Ethylene co-polymer (XLETFE) family for use in the on board electrical systems of aircraft operating at temperatures between - 65 °C and 135 °C at 600 V rms at sea level. This insulation system has been used in aerospace applications using 115 V (phase-to-neutral) 400 Hz ac and 28 Vdc. Verification of the suitability of cables for use in other electrical systems is the responsibility of the user.

These jacketed cables are suitable for airframe use without additional protection when the jacket is present. When the jacket is stripped back the cores may need additional protection. In case of conflict between this standard and other referenced documents the requirements of this standard shall take precedence.

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 2084, *Aerospace series — Cables, electrical, general purpose, with conductors in copper or copper alloy — Technical specification*

EN 2235, *Aerospace series — Single and multicore electrical cables, screened and jacketed — Technical specification*

EN 3475-100 (all parts), *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General*

EN 3838, *Aerospace series — Requirements and tests on user-applied markings on aircraft electrical cables*

EN 4434, *Aerospace series — Copper and copper alloy lightweight conductors for electrical cables — Product standard (Normal and tight tolerances)*

EN 4611(all parts), *Aerospace series — Cables, electrical, for general purpose, single and multicore assembly — XLETFE Family*

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard products*

FED-STD-595B, *Colours used in government procurement* ¹⁾

TR 6058, *Aerospace series — Cable code identification list* ²⁾

1) Published by: DoD National (US) Mil. Department of Defense, <http://www.defenselink.mil/>

2) Published as Technical Report at the date of publication of this standard by (ASD-STAN), <http://www.asd-stan.org>