

Irish Standard I.S. EN 4611-003:2018

Aerospace series - Cables, electrical, for general purpose, single and multicore assembly - XLETFE Family - Part 003: Tin plated copper - Operating temperatures, between -65 °C and 135 °C - Single extruded wall for enclosed applications - UV laser printable - Product standard

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I.S. EN 4611-003:2018

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National Foreword

I.S. EN 4611-003:2018 is the adopted Irish version of the European Document EN 4611-003:2018, Aerospace series - Cables, electrical, for general purpose, single and multicore assembly - XLETFE Family - Part 003: Tin plated copper - Operating temperatures, between -65 °C and 135 °C - Single extruded wall for enclosed applications - UV laser printable - Product standard

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EUROPEAN STANDARD

EN 4611-003

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Aerospace series - Cables, electrical, for general purpose, single and multicore assembly - XLETFE Family - Part 003: Tin plated copper - Operating temperatures, between -65 °C and 135 °C - Single extruded wall for enclosed applications - UV laser printable - Product standard

Série aérospatiale - Câbles, électriques, d'usage général, mono et multiconducteurs - Famille XLETFE -Partie 003: Cuivre étamé - Températures de fonctionnement comprises entre -65 °C et 135 °C - Fil simple isolé pour applications internes - Marquable au laser UV - Norme de produit Luft- und Raumfahrt - Ein- und mehradrige elektrische Leitungen für allgemeine Verwendung - XLETFE Familie - Teil 003: Kupferverzinnt -Betriebstemperaturen zwischen -65 °C und 135 °C -Einfach extrudierte Isolierung für interne Verwendung - UV-Laser bedruckbar - Produktnorm

This European Standard was approved by CEN on 6 August 2018.

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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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EN 4611-003:2018 (E)

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EN 4611-003:2018 (E)

European foreword

This document (EN 4611-003:2018) 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 June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

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 4611-003:2012.

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EN 4611-003:2018 (E)

1 Scope

This European Standard specifies the characteristics of UV laser printable, 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. The voltage rating is 600 Vrms at sea level. This insulation system has been used in aerospace applications using 115 Vac (phase-to-neutral) 400 Hz and 28 Vdc. Verification of the suitability of cables for use in other electrical systems is the responsibility of the user.

These cables are only suitable for airframe use with additional protection against mechanical abuse. 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, 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 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 4611-002, Aerospace series — Cables, electrical, for general purpose, single and multicore assembly — XLETFE Family — Part 002: General

EN 9133, Aerospace series — Quality Management Systems — Qualification Procedure for Aerospace Standard Products

3 Terms, definitions, symbols and abbreviations

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

4 Materials and construction

4.1 Materials

Conductor

The cable conductors shall be made of tin plated copper according to EN 4611-002.

Insulation

Single layer of extruded XLETFE

For single core, it shall be possible to mark the outer insulation by UV laser printing.



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