

Irish Standard I.S. EN 4611-009:2012

Aerospace series - Cables, electrical, for general purpose, single and multicore assembly - XLETFE Family - Part 009: BJ - Nickel plated copper - Operating temperatures, between -65 °C and 150 °C - Single extruded wall for use as cable cores or within equipment in areas of high vibration, cable flexing and fluid contamination - UV laser printable - Product standard

© NSAI 2012

No copying without NSAI permission except as permitted by copyright law.

## I.S. EN 4611-009:2012

Incorporating amendments	/corrigenda/National Anne.	xes issued since public	cation:	
The National Standards Author documents:	ity of Ireland (NSAI) produc	es the following cate	gories of formal	
I.S. xxx: Irish Standard – subject to public consultation.	national specification base	d on the consensus of	an expert panel and	
S.R. xxx: Standard Recom panel and subject to public con	mendation - recommendat sultation.	ion based on the cons	ensus of an expert	
SWiFT xxx: A rapidly developeraticipants of an NSAI worksh	ped recommendatory docur op.	ment based on the cor	nsensus of the	
This document replaces:				
This document is based on EN 4611-009:2012	. Published: 24 February, 2012			
This document was publish under the authority of the and comes into effect on: 24 February, 2012			<u>ICS number:</u> 49.060	
<b>NSAI</b> 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	<b>Sales:</b> T +353 1 857 6730 F +353 1 857 6729 W standards.ie		
Údarás um Chaighdeáin Náisiúnta na hÉireann				

I.S. EN 4611-009:2012

# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 4611-009

February 2012

ICS 49.060

#### **English Version**

Aerospace series - Cables, electrical, for general purpose, single and multicore assembly - XLETFE Family - Part 009: BJ - Nickel plated copper - Operating temperatures, between -65 °C and 150 °C - Single extruded wall for use as cable cores or within equipment in areas of high vibration, cable flexing and fluid contamination - UV laser printable - Product standard

Série aérospatiale - Câbles, électriques, d'usage général, mono et multiconducteurs - Famille XLETFE - Partie 009 : BJ - Cuivre nickelé - Températures de fonctionnement comprises entre -65 °C et 150 °C - Fil simple isolé utilisé comme âme de câbles ou dans les équipements dans les zones à hautes vibrations, flexion de câbles et pollution des fluides - Marquable au laser UV - Norme de produit

Luft- und Raumfahrt - Ein- und mehradrige elektrische Leitungen zur allgemeinen Verwendung, XLETFE-Familie -Teil 009: BJ, Kupfer vernickelt, Betriebstemperaturen zwischen -65 °C und 150 °C, einfach extrudierte Isolierung zur Verwendung in Verseilungen oder in Geräten in Bereichen mit hoher Vibration, Bewegung der Leitung und Kontakt mit Flüssigkeiten, UV-Laser bedruckbar -Produktnorm

This European Standard was approved by CEN on 17 September 2011.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

### I.S. EN 4611-009:2012

## EN 4611-009:2012 (E)

Cor	Contents	
Forev	word	3
1	Scope	4
2	Normative references	4
3	Terms, definitions, symbols and abbreviations	4
4 4.1 4.2	Materials and construction	5
4.2 4.3 4.4	Number of cores	5
5	Required characteristics	
6	Quality assurance	8
7	Designation	8
8	Identification and marking	8
9	Packaging, labelling and delivery lengths	8
10	Technical specification	8

EN 4611-009:2012 (E)

### **Foreword**

This document (EN 4611-009:2012) 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 August 2012, and conflicting national standards shall be withdrawn at the latest by August 2012.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] 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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### 1 Scope

This European Standard specifies the characteristics of UV laser printable, nickel plated copper conductor, electrical cables Crosslinked Ethylene Tetra Fluoro Ethylene co-polymer XLETFE family for use in the onboard electrical systems of aircraft at operating temperatures between – 65 °C and 150 °C, operating at voltages not exceeding 600 V r.m.s and frequencies not exceeding 2 000 Hz. These cables are intended for use as cores for jacketed cables or within equipment in areas where combinations of high vibration, cable flexing and fluid contamination are normal. In case of conflict between this European Standard and other referenced documents the requirements of this European Standard should 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 2083, Aerospace series – Copper or copper alloys conductors for electrical cables – Product standard

EN 2084, Aerospace series – Cables, electric, single-core, general purpose, with conductors in copper or copper alloy – Technical specification

EN 2235, Aerospace series – Single and multicore electrical cables, screened and jacketed

EN 3475-100<sup>1</sup>, 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 parts

### 3 Terms, definitions, symbols and abbreviations

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

-

<sup>&</sup>lt;sup>1</sup> And all its parts



	This is a free preview.	Purchase the e	entire publication	at the link below:
--	-------------------------	----------------	--------------------	--------------------

**Product Page** 

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation