



NSAI
Standards

Irish Standard
I.S. EN 4708-001:2019

Aerospace series - Sleeving, heat-shrinkable, for binding, insulation and identification - Part 001: Technical specification

I.S. EN 4708-001:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 4708-001:2019 is the adopted Irish version of the European Document EN 4708-001:2019, Aerospace series - Sleeving, heat-shrinkable, for binding, insulation and identification - Part 001: Technical specification

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EUROPEAN STANDARD

EN 4708-001

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2019

ICS 49.060

Supersedes EN 4708-001:2014

English Version

**Aerospace series - Sleeving, heat-shrinkable, for binding,
insulation and identification - Part 001: Technical
specification**

Série aérospatiale - Manchons thermorétractables, de
jonction, isolement et identification - Partie 001 :
Spécification technique

Luft- und Raumfahrt - Wärmeschrumpfender Schlauch
zur Befestigung, Isolierung und Identifizierung - Teil
001: Technische Lieferbedingungen

This European Standard was approved by CEN on 8 July 2018.

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 4708-001:2019) 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 December 2019, and conflicting national standards shall be withdrawn at the latest by December 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 4708-001:2014.

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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 4708-001:2019 (E)

1 Scope

This document specifies the required characteristics, test methods, qualification and production routine testing of Heat shrinkable sleeving for binding, insulation and identification.

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 6059-403, *Aerospace series — Electrical cables, installation — Protection sleeves — Test methods — Part 403: Scrape abrasion*

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

EN ISO 846, *Plastics — Evaluation of the action of microorganisms*

EN ISO 4892-2, *Aerospace series — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps*

IEC 60304, *Standard colours for insulation for low-frequency cables and wires* ¹⁾

IEC 60684-2, *Flexible insulating sleeving — Part 2: Methods of test* ¹⁾

3 Terms and definitions

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

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

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

4 Materials and characteristics

Sleeving shall be made from materials that ensure the finished sleeveings conform to the product standard.

4.1 Material types

See product standards.

4.2 Finish

The sleeving, both before and after unrestricted shrinkage, shall be free from bubbles, pinholes, creases and other defects that may affect performance.

1) Published by: International Electrotechnical Commission (IEC), <http://www.iec.ch/>

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