NSAI
Standards

Irish Standard
I.S. EN 6059-305:2019

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 305: Fluid absorption

I.S. EN 6059-305:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document is based on:	*Published:*
EN 6059-305:2019	2019-06-26

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2019-07-26	49.060
	NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN 6059-305:2019 is the adopted Irish version of the European Document EN 6059-305:2019, Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 305: Fluid absorption

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 6059-305

June 2019

ICS 49.060

English Version

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 305: Fluid absorption

Série aérospatiale - Câbles électriques, installation - Gaines de protection - Méthodes d'essais - Partie 305 : Absorption des fluides

Luft- und Raumfahrt - Elektrische Leitungen, Installation - Schutzschläuche - Prüfverfahren - Teil 305: Flüssigkeitsaufnahme

This European Standard was approved by CEN on 6 January 2019.

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

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Ref. No. EN 6059-305:2019 E

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European foreword

This document (EN 6059-305:2019) 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of an identical text or by endorsement, at the latest by December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.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.

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1 Scope

This document specifies a method to verify the fluid repellent properties of protection sleeve for electrical cable and cable bundles. It shall be used together with EN 6059-100.

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 6059-100, *Aerospace series — Electrical cables, installation — Protection sleeves — Test methods — Part 100: General*

ISO 3696, *Water for Analytical laboratory use — Specification and test methods* [1)]

3 Terms and definitions

No terms and definitions are listed in this document.

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 Apparatus

A specimen with a length of 40 mm to 60 mm shall be used. For tubular sleeves only, the specimen shall be prepared as a flat part by cutting through the sleeve in longitudinal direction. The cutting area shall be fixed by application of tape or adhesive to avoid debraiding of the specimen (if applicable). If water is used, it shall be distilled or demineralised water according to ISO 3696 Type 2.

To achieve a controlled drip a bottle or a pump shall be used. It shall be provided with a minimum drip aperture of 2,5 mm. The fixture to apply the specimen and bottle or pump with a drip aperture as given in Figure 1 shall be used. The distance between the aperture and the specimen shall be minimum 70 mm. The number of drops delivered per minute should be comprised between 20 to 25 and the volume of water delivered per minute of a minimum of 1,35 ml.

1) Published by: International Organization for Standardization (ISO), https://www.iso.org/