



**NSAI**  
Standards

Irish Standard  
I.S. EN 4674-003:2017

Aerospace series - Electrical cables,  
installation - Self-wrapping shielding (EMI)  
protective sleeve - Part 003: Open sleeve -  
Inside pressurized area - EMI protection 5 kA  
- Temperature range - 65 °C to 200 °C -  
Product standard

**I.S. EN 4674-003:2017**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

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*This document is based on:*

EN 4674-003:2017

*Published:*

2017-06-07

*This document was published  
under the authority of the NSAI  
and comes into effect on:*

2017-06-25

ICS number:

49.060

NOTE: If blank see CEN/CENELEC cover page

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Údarás um Chaighdeáin Náisiúnta na hÉireann

## National Foreword

I.S. EN 4674-003:2017 is the adopted Irish version of the European Document EN 4674-003:2017, Aerospace series - Electrical cables, installation - Self-wrapping shielding (EMI) protective sleeve - Part 003: Open sleeve - Inside pressurized area - EMI protection 5 kA - Temperature range - 65 °C to 200 °C - Product standard

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*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN 4674-003**

June 2017

ICS 49.060

Supersedes EN 4674-003:2015

English Version

**Aerospace series - Electrical cables, installation - Self-  
wrapping shielding (EMI) protective sleeve - Part 003:  
Open sleeve - Inside pressurized area - EMI protection 5  
kA - Temperature range - 65 °C to 200 °C - Product  
standard**

Série aéronautique - Câbles électriques, installation -  
Gaine de protection blindée (EMI) auto-fermable -  
Partie 003 : Gaine ouverte - Usage interne - Protection  
EMI 5 kA - Température d'utilisation - 65 °C à 200 °C -  
Norme de produit

Luft- und Raumfahrt - Elektrische Leitungen,  
Installation - Selbstschließender abschirmender (EMI)  
Schutzschlauch - Teil 003: Offener Schutzschlauch -  
Innerhalb Druckkabine - EMI Schutz 5 kA -  
Temperaturbereich -65 °C bis 200 °C - Produktnorm

This European Standard was approved by CEN on 10 April 2017.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION  
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## **European foreword**

This document (EN 4674-003:2017) 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 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

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.

This document supersedes EN 4674-003:2015.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**EN 4674-003:2017 (E)****1 Scope**

This European Standard specifies the characteristics of flexible 5 kA self-wrapping shielding (EMI) protection sleeves, to be installed inside pressurized areas on electrical cables or cable bundles, made from nickel plated copper strands and PPS (polyphenylene sulfide) monofilament.

Temperature range: – 65 °C to 200 °C.

**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 2591-214, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 214: Lightning strike, current and voltage pulse*

EN 2591-307, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 307: Salt mist*

EN 2825, *Aerospace series — Burning behaviour of non metallic materials under the influence of radiating heat and flames — Determination of smoke density*

EN 2826, *Aerospace series — Burning behaviour of non metallic materials under the influence of radiating heat and flames — Determination of gas components in the smoke*

EN 3475, *Aerospace series — Cables, electrical, aircraft use — Test methods* <sup>1)</sup>

EN 3844-1, *Aerospace series — Flammability of non metallic materials — Part 1: Small burner test, vertical — Determination of the vertical flame propagation*

EN 4674-001, *Aerospace series — Electrical cables, installation — Self-wrapping shielding (EMI) protective sleeve — Part 001: Technical specification*

EN 4674-002, *Aerospace series — Electrical cables, installation — Self-wrapping shielding (EMI) protective sleeve — Part 002: General and list of product standard*

EN 6059, *Aerospace series — Electrical cables, installation — Protection sleeves — Test methods* <sup>1)</sup>

ISO 4892-3, *Plastics — Methods of exposure to laboratory light sources — Part 3: Fluorescent UV lamps*

IEC 62153-4-3, *Metallic communication cable test methods — Part 4-3: Electromagnetic compatibility (EMC) — Surface transfer impedance — Triaxial method* <sup>2)</sup>

ASTM D4894, *Standard Specification for Polytetrafluoroethylene (PTFE) Granular Molding* <sup>3)</sup>

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1) All its parts quoted in Table 5.

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

3) Published by: ASTM National (US) American Society for Testing and Materials. <http://www.astm.org/>



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