



NSAI
Standards

Irish Standard
I.S. EN IEC 62677-3-103:2019

Heat-shrinkable low and medium voltage moulded shapes - Part 3: Specification for individual materials - Sheet 103: Heat-shrinkable, polyolefin, conductive moulded shapes for medium voltage applications

I.S. EN IEC 62677-3-103:2019

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National Foreword

I.S. EN IEC 62677-3-103:2019 is the adopted Irish version of the European Document EN IEC 62677-3-103:2019, Heat-shrinkable low and medium voltage moulded shapes - Part 3: Specification for individual materials - Sheet 103: Heat-shrinkable, polyolefin, conductive moulded shapes for medium voltage applications

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 62677-3-103

July 2019

ICS 29.035.20; 29.035.01

English Version

**Heat-shrinkable low and medium voltage moulded shapes - Part
3: Specification for individual materials - Sheet 103: Heat-
shrinkable, polyolefin, conductive moulded shapes for medium
voltage applications
(IEC 62677-3-103:2019)**

Profils thermorétractables basse et moyenne tensions -
Partie 3: Spécification pour matériaux particuliers - Feuille
103: Profils thermorétractables conducteurs en polyoléfine
pour applications moyenne tension
(IEC 62677-3-103:2019)

Wärmeschrumpfende Nieder- und Mittelspannungsformteile
- Wärmeschrumpfende Nieder- und
Mittelspannungsformteile - Teil 3: Anforderungen für
einzelne Materialien - Blatt 103: Wärmeschrumpfende
Polyolefinformteile, leitfähig, für
Mittelspannungsanwendungen
(IEC 62677-3-103:2019)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62677-3-103:2019 (E)

European foreword

The text of document 15/833/CDV, future edition 1 of IEC 62677-3-103, prepared by IEC/TC 15 "Solid electrical insulating materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62677-3-103:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-03-18
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-06-18

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The text of the International Standard IEC 62677-3-103:2019 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60684-3-280:2010	NOTE	Harmonized as EN 60684-3-280:2010 (not modified)
IEC 60684-3-283:2010	NOTE	Harmonized as EN 60684-3-283:2011 (not modified)

Annex ZA

(normative)

**Normative references to international publications
with their corresponding European publications**

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60296	-	Fluids for electrotechnical applications - Unused mineral insulating oils for transformers and switchgear	EN 60296	-
IEC 60757	-	Code for designation of colours	HD 457 S1	-
IEC 62677-1	-	Heat shrinkable low and medium voltage moulded shapes - Part 1: General requirements	EN IEC 62677-1	-
IEC 62677-2	2017	Heat shrinkable low and medium voltage moulded shapes - Part 2: Methods of test	EN IEC 62677-2	2018

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IEC 62677-3-103

Edition 1.0 2019-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Heat-shrinkable low and medium voltage moulded shapes –
Part 3: Specification for individual materials – Sheet 103: Heat-shrinkable,
polyolefin, conductive moulded shapes for medium voltage applications**

**Profilés thermorétractables basse et moyenne tensions –
Partie 3: Spécification pour matériaux particuliers – Feuille 103: Profilés
thermorétractables conducteurs en polyoléfine pour applications moyenne
tension**



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IEC 62677-3-103

Edition 1.0 2019-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Heat-shrinkable low and medium voltage moulded shapes –
Part 3: Specification for individual materials – Sheet 103: Heat-shrinkable,
polyolefin, conductive moulded shapes for medium voltage applications**

**Profils thermorétractables basse et moyenne tensions –
Partie 3: Spécification pour matériaux particuliers – Feuille 103: Profils
thermorétractables conducteurs en polyoléfine pour applications moyenne
tension**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HEAT-SHRINKABLE LOW AND MEDIUM VOLTAGE MOULDED SHAPES –**Part 3: Specification for individual materials –
Sheet 103: Heat-shrinkable, polyolefin, conductive moulded shapes for
medium voltage applications**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62677 has been prepared by committee TC 15: Solid electrical insulating materials.

The text of this International Standard is based on the following documents:

CDV	Report on voting
15/833/CDV	15/861/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62677 series, published under the general title *Heat shrinkable low and medium voltage moulded shapes*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

This part of IEC 62677 is one of a series that deals with heat shrinkable low and medium voltage moulded shapes. It consists of three parts:

- Part 1: General requirements (IEC 62677-1)
- Part 2: Methods of test (IEC 62677-2) 1
- Part 3: Specification for individual materials

This standard gives one of the sheets comprising Part 3 as follows:

Sheet 103: Heat shrinkable, polyolefin, conductive moulded shapes for medium voltage applications

HEAT-SHRINKABLE LOW AND MEDIUM VOLTAGE MOULDED SHAPES

Part 3: Specification for individual materials

Sheet 103: Heat-shrinkable, polyolefin, conductive moulded shapes for medium voltage applications

1 Scope

This part of IEC 62677 is applicable to heat shrinkable low and medium voltage moulded shapes, conductive, in a range of configurations suitable for environmental sealing, mechanical protection, strain relief for power cable terminations, joints and stop ends. These moulded shapes have been found suitable for use for temperatures between –40 °C and 100 °C.

The moulded shapes can be supplied with a pre-coated adhesive. A guide to adhesive compatibility and temperature performance is given in Annex A. The manufacturers/suppliers can be consulted for options.

Materials which conform to this specification meet established levels of performance. However, the selection of a material by a user for a specific application will need to be based on the actual requirements necessary for adequate performance in that application and not based on this specification alone.

The tests specified are designed to control the quality of the moulded shapes but it is recognized that they are designed to be used in low and medium voltage cable accessories and as such electrical performance will be proven as part of the assembly. Examples of this are described in EN 50393, HD 629 and IEC 60502 (all parts).

2 Normative references

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IEC 60296, *Fluids for electrotechnical applications – Unused mineral insulating oils for transformers and switchgear*

IEC 60757, *Code for designation of colours*

IEC 62677-1, *Heat shrinkable low and medium voltage moulded shapes – Part 1: General requirements*

IEC 62677-2:2017, *Heat shrinkable low and medium voltage moulded shapes – Part 2: Methods of test*

3 Terms and definitions

No terms and definitions are listed in this document.

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