NSAI Standards

Irish Standard
I.S. EN 60702-3:2016

Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V - Part 3: Guidance for use

I.S. EN 60702-3:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 60702-3:2016 is the adopted Irish version of the European Document EN 60702-3:2016, Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V - Part 3: Guidance for use

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

Compliance with this document does not of itself confer immunity from legal obligations.

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 60702-3

June 2016

ICS 29.060.20

English Version

Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V - Part 3: Guidance for use (IEC 60702-3:2016)

Câbles à isolant minéral et leurs terminaisons de tension assignée ne dépassant pas 750 V - Partie 3: Guide d'utilisation (IEC 60702-3:2016)

Mineralisolierte Leitungen mit einer Bemessungsspannung bis 750 V - Teil 3: Anwendungsrichtlinie (IEC 60702-3:2016)

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 60702-3:2016 E

European foreword

The text of document 20/1618/FDIS, future edition 1 of IEC 60702-3, prepared by IEC/TC 20 "Electric cables" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60702-3:2016.

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)	2017-02-18
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2019-05-18

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Endorsement notice

The text of the International Standard IEC 60702-3:2016 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60702-1	NOTE	Harmonized as EN 60702-1.
IEC 60702-2	NOTE	Harmonized as EN 60702-2.
IEC 60364-5-52	NOTE	Harmonized as HD 60364-5-52.

Annex ZA
(normative)
Normative references to international publications with their corresponding European publications

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.

NOTE 1 When 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.

Publication	Year	Title	EN/HD	Year
IEC 60364-1	-	Low-voltage electrical installations -- Part 1: Fundamental principles, assessment of general characteristics, definitions	HD 60364-1	-

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IEC 60702-3

Edition 1.0 2016-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V –
Part 3: Guidance for use

Câbles à isolant minéral et leurs terminaisons de tension assignée ne dépassant pas 750 V –
Partie 3: Guide d'utilisation

IEC 60702-3:2016-04(en-fr)

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IEC 60702-3

Edition 1.0 2016-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V – Part 3: Guidance for use

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CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MINERAL INSULATED CABLES AND THEIR TERMINATIONS WITH A RATED VOLTAGE NOT EXCEEDING 750 V –

Part 3: Guidance for use

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 60702-3 has been prepared by IEC technical committee 20: Electric cables.

This first edition of IEC 60702-3 is based on CENELEC HD 586.3.

The text of this standard is based on the following documents:

FDIS	Report on voting
20/1618/FDIS	20/1623/RVD

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

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

A list of all parts in the IEC 60702 series, published under the general title *Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V*, can be found on the IEC website.

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

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

MINERAL INSULATED CABLES AND THEIR TERMINATIONS WITH A RATED VOLTAGE NOT EXCEEDING 750 V –

Part 3: Guidance for use

1 Scope

This part of IEC 60702 provides guidance for the safe use of mineral insulated cables and their terminations with a rated voltage not exceeding 750 V which are specified in IEC 60702-1 and IEC 60702-2.

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.

IEC 60364-1, *Low-voltage electrical installations – Part 1: Fundamental principles, assessment of general characteristics, definitions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60364-1 apply.

4 Safety

4.1 Fundamental considerations

4.1.1 Safety of a cable means that the product does not present an unacceptable risk of danger to life or property whilst being used in its intended manner.

4.1.2 Unless otherwise stated, cables shall not be used for any other purpose than the transmission and distribution of electricity.

4.1.3 The test methods, test parameters and requirements described in IEC 60702-1 and IEC 60702-2 are only provided for the purpose of checking design with respect to safety and quality assurance. They shall not be regarded as providing guidance as to whether the cables are suitable for service under conditions equivalent to the test conditions.

4.2 General

4.2.1 All conductors and cables shall be selected so as to be suitable for the voltages and currents likely to occur under all conditions which are or shall have been anticipated in the equipment or installation in which they are used.

4.2.2 Cables shall be constructed, installed, protected, used and maintained so as to prevent danger so far as it is reasonably practical.

4.2.3 The limiting temperature conditions under which mineral insulated cables and terminations can reasonably be expected to operate safely under normal circumstances are given in Table 1.